

Revision E:

- MUZ-GE25VAD-[A1], MUZ-GE35VAD-[A1], MUZ-GE42VAD-[A1], MUZ-GE50VAD-[A1], MUZ-GE60VAD-[A1], MUZ-GE71VAD-[A1] and MUZ-GE80VAD-[A1] have been added.

Please void OBH532 REVISED EDITION-D.

OUTDOOR UNIT SERVICE MANUAL



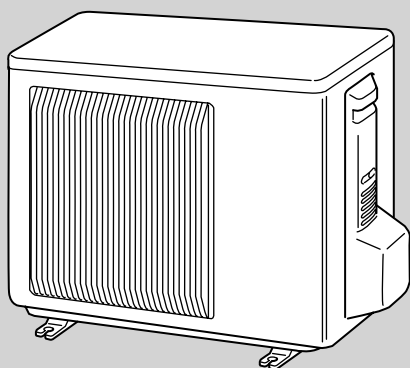
No. OBH532
REVISED EDITION-E

Models

MUZ-GE25VA - [A1]
MUZ-GE25VA - [A2]
MUZ-GE25VAD - [A1]
MUZ-GE33VA - [A1]
MUZ-GE35VA - [A1]
MUZ-GE35VA2 - [A1]
MUZ-GE35VA2 - [A2]
MUZ-GE35VAD - [A1]
MUZ-GE42VA - [A1]
MUZ-GE42VAD - [A1]

MUZ-GE50VA - [A1]
MUZ-GE50VA2 - [A1]
MUZ-GE50VAD - [A1]
MUZ-GE60VA - [A1]
MUZ-GE60VAD - [A1]
MUZ-GE71VA - [A1]
MUZ-GE71VAD - [A1]
MUZ-GE80VA - [A1]
MUZ-GE80VA2 - [A1]
MUZ-GE80VAD - [A1]

Indoor unit service manual
MSZ-GE•VA Series (OBH531)



MUZ-GE25VA
 MUZ-GE25VAD
 MUZ-GE33VA
 MUZ-GE35VA
 MUZ-GE35VA2
 MUZ-GE35VAD
 MUZ-GE42VA
 MUZ-GE42VAD

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PARTS CATALOG (OBB532)

NOTE:

RoHS compliant products have <G> mark on the spec name plate.

Use the specified refrigerant only

Never use any refrigerant other than that specified.

Doing so may cause a burst, an explosion, or fire when the unit is being used, serviced, or disposed of.

Correct refrigerant is specified in the manuals and on the spec labels provided with our products.

We will not be held responsible for mechanical failure, system malfunction, unit breakdown or accidents caused by failure to follow the instructions.

Revision A :

- MUZ-GE60VA-[A1], MUZ-GE71VA-[A1] and MUZ-GE80VA-[A1] have been added.

Revision B:

- MUZ-GE33VA-[A1] and MUZ-GE42VA-[A1] have been added.

Revision C:

- MUZ-GE35VA2-[A1], MUZ-GE50VA2-[A1] and MUZ-GE80VA2-[A1] have been added.

Revision D:

- MUZ-GE25VA-[A2] and MUZ-GE35VA2-[A2] have been added.

Revision E:

- MUZ-GE25VAD-[A1], MUZ-GE35VAD-[A1], MUZ-GE42VAD-[A1], MUZ-GE50VAD-[A1], MUZ-GE60VAD-[A1], MUZ-GE71VAD-[A1] and MUZ-GE80VAD-[A1] have been added.

MUZ-GE25VA - [A1]

MUZ-GE33VA - [A1]

MUZ-GE35VA - [A1]

MUZ-GE42VA - [A1]

MUZ-GE50VA - [A1]

MUZ-GE60VA - [A1]

MUZ-GE71VA - [A1]

MUZ-GE80VA - [A1]

1. New model

MUZ-GE35VA -[A1] → MUZ-GE35VA2 -[A1]

MUZ-GE50VA -[A1] → MUZ-GE50VA2 -[A1]

MUZ-GE80VA -[A1] → MUZ-GE80VA2 -[A1]

1. Inverter P.C. board has been changed.

MUZ-GE25VA -[A1] → MUZ-GE25VA -[A2]

1. Compressor has been changed.
2. Back panel has been changed.
3. Outdoor heat exchanger has been changed.
4. Reactor has been changed.
5. Inverter P.C. board has been changed.
6. Maximum heating capacity has been changed.

MUZ-GE35VA2 -[A1] → MUZ-GE35VA2 -[A2]

1. Compressor has been changed.
2. Back panel has been changed.
3. Outdoor heat exchanger has been changed.
4. Inverter P.C. board has been changed.

MUZ-GE25VA -[A2] → MUZ-GE25VAD -[A1]

MUZ-GE35VA2 -[A2] → MUZ-GE35VAD -[A1]

MUZ-GE42VA -[A1] → MUZ-GE42VAD -[A1]

MUZ-GE50VA2 -[A1] → MUZ-GE50VAD -[A1]

1. Inverter P.C. board has been changed.

MUZ-GE60VA -[A1] → MUZ-GE60VAD -[A1]

MUZ-GE71VA -[A1] → MUZ-GE71VAD -[A1]

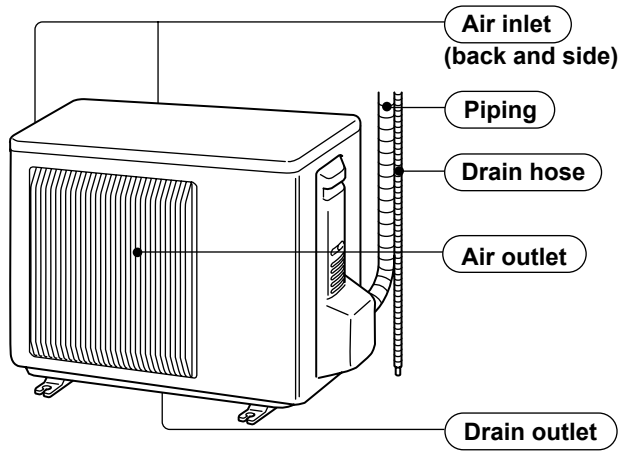
MUZ-GE80VA2 -[A1] → MUZ-GE80VAD -[A1]

1. Outdoor heat exchanger has been changed.
2. R.V coil has been changed.
3. 4-Way valve has been changed.
4. Service panel has been changed.
5. Terminal block has been changed.
6. Inverter P.C. board has been changed.

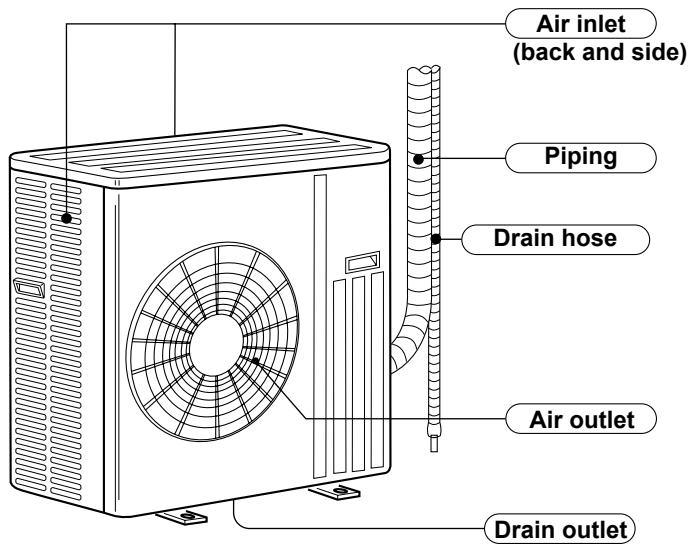
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PART NAMES AND FUNCTIONS

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA
 MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD MUZ-GE42VA MUZ-GE42VAD

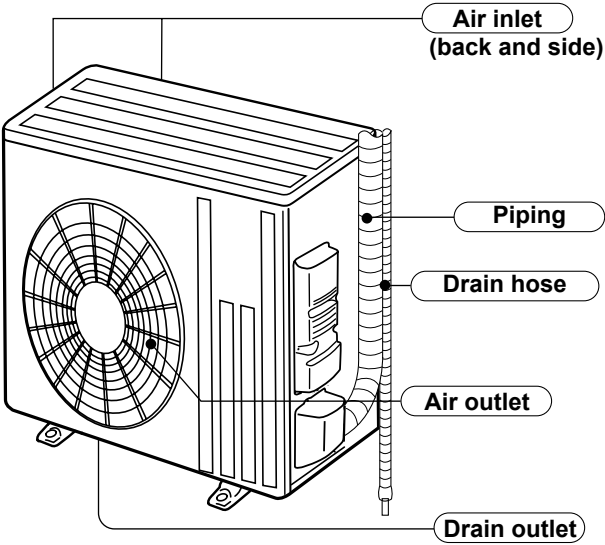


MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD





MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD



ACCESSORIES

Model		MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD MUZ-GE42VA MUZ-GE42VAD	MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD	MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD
①	Drain socket	1	1	1
②	Drain cap	-	2	-

Outdoor model				MUZ-GE25VA- <small>A1</small>	MUZ-GE25VA- <small>A2</small>	MUZ-GE25VAD	MUZ-GE33VA	
Power supply				Single phase, 230 V, 50 Hz				
Capacity Rated frequency (Min.-Max.)		Cooling	kW	2.5 (1.1 - 3.5)			3.3(1.4 - 3.9)	
		Heating		3.2 (1.3 - 4.5)	3.2 (1.3 - 4.1)	3.2 (1.3 - 4.5)	4.0 (1.4 - 4.8)	
Breaker Capacity			A	10				
Electrical data	Power input *1 (Total)	Cooling	W	560			910	
		Heating		730			1,030	
	Running current *1 (Total)	Cooling	A	2.9			4.3	
		Heating		3.8			4.8	
	Power factor *1 (Total)	Cooling	%	84			92	
		Heating		84			93	
Starting current *1 (Total)			A	3.8			4.8	
Coefficient of performance (COP) *1 (Total)		Cooling	4.46			3.63		
		Heating	4.38			3.88		
Compressor	Model			KNB073FFDHC	KNB073FKVHC		KNB092FFAHC	
	Output		W	550			650	
	Current *1	Cooling	A	2.44			3.70	
		Heating		3.30			4.30	
	Refrigeration oil (Model)		L	0.32 (NEO22)	0.36 (NEO22)		0.32 (NEO22)	
Fan motor	Model			RC0J50-DB				
	Current *1	Cooling	A	0.24			0.31	
		Heating		0.27				
Dimensions W × H × D			mm	800 × 550 × 285				
Weight			kg	30				
Special remarks	Dehumidification		L/h	0.2			0.6	
	Air flow *1	Cooling	High	—				
			Med.	1,806			1,956	
			Low	1,170			1,806	
		Heating	High	2,106			2,130	
			Med.	1,806			1,956	
			Low	1,452			1,476	
	Sound level *1		Cooling	dB(A)	46			47
			Heating		48			
	Fan speed	Cooling	High	—				
			Med.	740			800	
			Low	490			740	
		Heating	High	860			870	
			Med.	740			800	
			Low	600			610	
	Fan speed regulator			3				
	Refrigerant filling capacity (R410A)		kg	0.80				

NOTE: Test conditions are based on AS/NZS 3823.1.1.

Cooling: Indoor Dry-bulb temperature 27°C

Outdoor Dry-bulb temperature 35°C

Heating: Indoor Dry-bulb temperature 20°C

Outdoor Dry-bulb temperature 7°C

Refrigerant piping length (one way): 5 m

*1 Measured under rated operating frequency.

Wet-bulb temperature 19°C

Wet-bulb temperature (24°C)

Wet-bulb temperature 15.5°C

Wet-bulb temperature 6°C



Outdoor model				MUZ-GE35VA	MUZ-GE35VA2- <small>A1</small>	MUZ-GE35VA2- <small>A2</small>	MUZ-GE35VAD	MUZ-GE42VA	MUZ-GE42VAD	
Power supply				Single phase, 230 V, 50 Hz						
Capacity Rated frequency (Min.-Max.)		Cooling	kW	3.5 (1.4 - 3.9)	3.5 (1.1 - 4.0)			4.2(0.9-4.8)		
		Heating		4.0 (1.4 - 4.8)	4.0 (1.6 - 5.3)			5.4(1.4-6.0)		
Breaker Capacity			A	10						
Electrical data	Power input *1 (Total)	Cooling	W	1,010	920			1,260		
		Heating		1,030	990			1,540		
	Running current *1 (Total)	Cooling	A	4.7	4.4			5.8		
		Heating		4.8	4.6			7.0		
	Power factor *1 (Total)	Cooling	%	93	91			94		
		Heating		93	94			96		
	Starting current *1 (Total)		A	4.8	4.6			7.0		
Coefficient of performance (COP) *1 (Total)		Cooling		3.47	3.80			3.33		
		Heating		3.88	4.04			3.51		
Compressor	Model			KNB092FFAHC		KNB092FNDHC		SNB130FGBHT		
	Output		W	650				900		
	Current *1	Cooling	A	4.10	3.76			5.19		
		Heating		4.30	4.06			6.38		
	Refrigeration oil (Model)		L	0.32 (NEO22)				0.45 (NEO22)		
Fan motor	Model			RC0J50-DB				RC0J50-EA		
	Current *1	Cooling	A	0.31	0.35			0.32		
		Heating		0.27	0.31					
Dimensions W × H × D			mm	800 × 550 × 285						
Weight			kg	30	33			36		
Special remarks	Dehumidification		Cooling	L/h	0.8	0.9			1.4	
	Air flow *1	Cooling	High	m³/h	—					
			Med.		1,956	1,872				
			Low		1,806	1,776		1,086		
		Heating	High		2,130	2,016				
			Med.		1,956	1,776				
			Low		1,476	1,386				
	Sound level *1		Cooling	dB(A)	47			50		
			Heating		48			51		
	Fan speed	Cooling	High	rpm	—					
			Med.		800	810				
			Low		740	770		490		
		Heating	High		870					
			Med.		800	770				
			Low		610					
	Fan speed regulator				3					
	Refrigerant filling capacity (R410A)			kg	0.80	1.15				

NOTE: Test conditions are based on AS/NZS 3823.1.1.
Cooling: Indoor Dry-bulb temperature 27°C
Outdoor Dry-bulb temperature 35°C
Heating: Indoor Dry-bulb temperature 20°C
Outdoor Dry-bulb temperature 7°C
Refrigerant piping length (one way): 5 m
*1 Measured under rated operating frequency.

Wet-bulb temperature 19°C
Wet-bulb temperature (24°C)
Wet-bulb temperature 15.5°C
Wet-bulb temperature 6°C



Outdoor model				MUZ-GE50VA		MUZ-GE50VA2		MUZ-GE50VAD		
Power supply				Single phase, 230 V, 50 Hz						
Capacity Rated frequency (Min.-Max.)			Cooling	kW	5.0 (1.4 - 5.4)		4.8 (1.4 - 5.4)			
			Heating		5.8 (1.4 - 7.2)					
Breaker Capacity				A		16				
Electrical data	Power input *1 (Total)		Cooling	W	1,640		1,480			
			Heating		1,650					
	Running current *1 (Total)		Cooling	A	7.4		6.8			
			Heating		7.4					
	Power factor *1 (Total)		Cooling	%	96		94			
			Heating		96					
Starting current *1 (Total)				A		7.4				
Coefficient of performance (COP) *1 (Total)			Cooling	3.05		3.24				
			Heating	3.52						
Compressor	Model			SNB130FGBHT						
	Output		W		900					
	Current *1	Cooling	A	6.69		6.09				
		Heating		6.72						
Refrigeration oil (Model)			L		0.45 (NEO22)					
Fan motor	Model			RC0J60-AA						
	Current *1	Cooling	A	0.32						
		Heating		0.32						
Dimensions W × H × D				mm		840 × 850 × 330				
Weight				kg		54				
Special remarks	Dehumidification		Cooling	L/h	1.8		1.6			
	Air flow *1	Cooling	High	m³/h	—					
			Med.		2,940					
			Low		1,740					
		Heating	High		—					
			Med.		2,940					
			Low		2,142					
	Sound level *1		Cooling	dB(A)	54					
			Heating		56					
	Fan speed	Cooling	High	rpm	—					
			Med.		780					
			Low		480					
		Heating	High		—					
			Med.		780					
			Low		580					
	Fan speed regulator				2					
	Refrigerant filling capacity (R410A)			kg		1.55				

NOTE: Test conditions are based on AS/NZS 3823.1.1.

Cooling: Indoor	Dry-bulb temperature 27°C	Wet-bulb temperature	19°C
Outdoor	Dry-bulb temperature 35°C	Wet-bulb temperature	(24°C)
Heating: Indoor	Dry-bulb temperature 20°C	Wet-bulb temperature	15.5°C
Outdoor	Dry-bulb temperature 7°C	Wet-bulb temperature	6°C

Refrigerant piping length (one way): 5 m

*1 Measured under rated operating frequency.



Outdoor model				MUZ-GE60VA	MUZ-GE60VAD	MUZ-GE71VA	MUZ-GE71VAD	MUZ-GE80VA	MUZ-GE80VA2	MUZ-GE80VAD	
Power supply				Single phase, 230 V, 50 Hz							
Capacity Rated frequency (Min.-Max.)		Cooling	kW	6.0 (1.5 - 7.5)		7.1 (2.4- 8.7)		8.0 (2.4 - 9.2)	7.8 (2.4 - 9.2)		
		Heating		6.8 (2.0 - 9.3)		8.1 (2.2 - 9.9)		9.0 (2.2 - 11.1)			
Breaker Capacity			A	20							
Electrical data	Power input *1 (Total)		Cooling	W	1,760		2,130		2,560	2,460	
			Heating		1,770		2,110		2,540	2,550	
	Running current *1 (Total)		Cooling	A	7.8		9.4		11.3	10.8	
			Heating		7.8		9.5		11.2		
	Power factor *1 (Total)		Cooling	%	98		99		98	99	
			Heating		98		97		99		
Starting current *1 (Total)			A	7.8		9.5		11.3	11.2		
Coefficient of performance (COP) *1 (Total)		Cooling		3.40	3.41	3.33		3.12	3.17		
		Heating		3.84		3.83	3.84	3.54	3.53		
Compressor		Model		SNB130FGBMT			SNB172FEKMT				
		Output		W	900			1,200			
		Current *1	Cooling	A	6.62	6.44	8.02	8.06	9.89	9.39	9.43
			Heating		6.37	6.34	8.13	8.17	9.83		9.87
Refrigeration oil (Model)		L	0.35 (FV50S)			0.4 (FV50S)					
Fan motor		Model		RC0J60-BC							
		Current *1	Cooling	A	0.84	0.93	0.83		0.86		
Heating	0.93		0.82								
Dimensions W × H × D			mm	840 × 880 × 330							
Weight			kg	50		53					
Special remarks	Dehumidification		Cooling	L/h	1.9		2.2		2.9	2.7	
	Air flow *1	Cooling	High	m³/h	3,492		3,426				
			Med.		3,066		3,006				
			Low		1,692		1,512				
		Heating	High		2,952		2,892				
			Med.		2,952		2,892				
			Low		2,226		2,280				
	Sound level *1		Cooling	dB(A)	55						
			Heating		55						
	Fan speed	Cooling	High	rpm	950						
			Med.		840						
			Low		480		450				
		Heating	High		810						
			Med.		810						
			Low		620		650				
	Fan speed regulator				3						
	Refrigerant filling capacity (R410A)			kg	1.55		1.90				

NOTE: Test conditions are based on AS/NZS 3823.1.1.

Cooling: Indoor Dry-bulb temperature 27°C
 Outdoor Dry-bulb temperature 35°C
 Heating: Indoor Dry-bulb temperature 20°C
 Outdoor Dry-bulb temperature 7°C
 Refrigerant piping length (one way): 5 m

*1 Measured under rated operating frequency.

Wet-bulb temperature 19°C
 Wet-bulb temperature (24°C)
 Wet-bulb temperature 15.5°C
 Wet-bulb temperature 6°C



Specifications and rated conditions of main electric parts

Model		MUZ-GE25VA	MUZ-GE25VAD	MUZ-GE33VA	MUZ-GE35VA	MUZ-GE35VA2	MUZ-GE35VAD	MUZ-GE42VA	MUZ-GE42VAD	MUZ-GE50VA	MUZ-GE50VA2	MUZ-GE50VAD
Smoothing capacitor	(C62, C63)	600 μF/620 μF 420 V						—				
	(C61)	—						600 μF/620 μF 420 V				
Diode module	(DB61)	15 A 600 V								25 A 600 V		
	(DB65)	25 A 600 V										
Fuse	(F62)	—										
	(F61)	T20AL250V										
	(F701, F801, F901)	T3.15AL250V										
	(F601,F880, F901)	—										
Intelligent power module / Power module ※1.	(IC932)	—										
	(IPM)	15 A 600 V						20 A 600 V				
Expansion valve coil	(LEV)	12 VDC										
Reactor	(L61)	18 mH	23 mH									
	(L)	—										
Power factor controller	(PFC)	—										
Current-limiting PTC thermistor	(PTC64, PTC65)	33 Ω										
Terminal block	(TB1, TB2)	3 P										
Relay	(X63)	3 A 250 V										
	(X64)	20 A 250 V										
	(X601)	—										
	(X602)	—										
R.V.coil	(21S4)	220 - 240 VAC										
IGBT	(TR821)	30 A 600 V										

※1.

Intelligent power module: **MUZ-GE25VA -A1**, **MUZ-GE35/50VA**

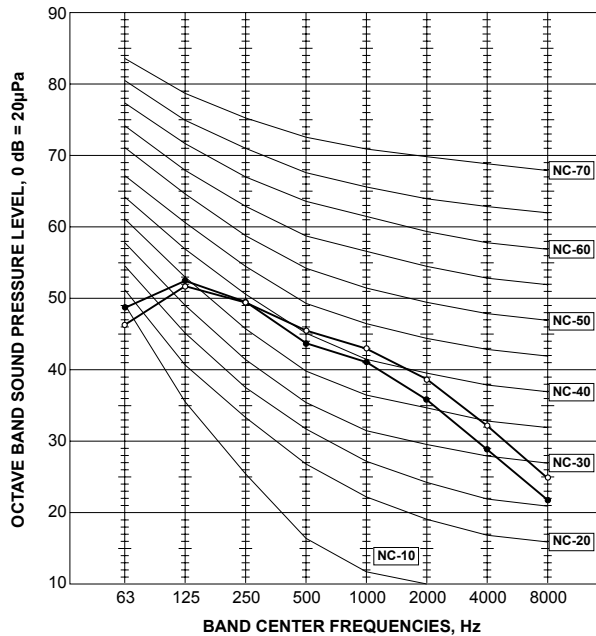
Power module: **Other models**

Specifications and rated conditions of main electric parts

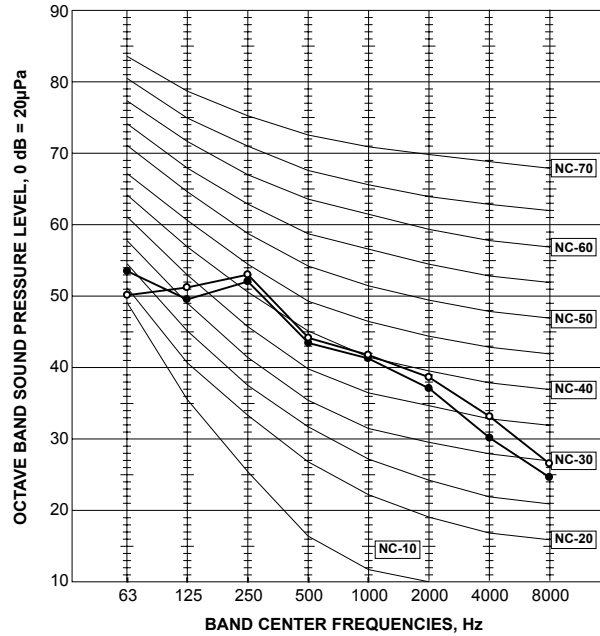
Item	Model	MUZ-GE60VA	MUZ-GE60VAD	MUZ-GE71VA	MUZ-GE71VAD	MUZ-GE80VA	MUZ-GE80VA2	MUZ-GE80VAD
Smoothing capacitor	(C61, C62, C63)	—						
	(CB1, CB2, CB3)	560 μ F 450 V						
Diode module	(DB61)	—						
	(DB65)	—						
Fuse	(F62)	T2.0AL250V	—	T2.0AL250V	—	T2.0AL250V	—	—
	(F61)	—						
	(F701, F801, F901)	—						
	(F601, F880, F901)	T3.15AL250V						
Intelligent power module	(IC932)	5A 600 V						
	(IPM)	20 A 600 V	—	20 A 600 V	—	20 A 600 V	—	—
IGBT module	(IC700)	—	20 A 600 V	—	20 A 600 V	—	—	20 A 600 V
Expansion valve coil	(LEV)	12 VDC						
Reactor	(L61)	—						
	(L)	340 μ H						
Power factor controller	(PFC)	20 A 600 V	—	20 A 600 V	—	20 A 600 V	—	—
	(IC820)	—	20 A 600 V	—	20 A 600 V	—	—	20 A 600 V
Current-limiting PTC thermistor	(PTC64, PTC65)	33 Ω						
Terminal block	(TB1, TB2)	3 P						
Relay	(X63)	—						
	(X64)	20 A 250 V						
	(X601)	3 A 250V						
	(X602)	3 A 250V						
R.V.coil	(21S4)	220 - 240 VAC						
IGBT	(TR821)	—						

MUZ-GE25VA
MUZ-GE25VAD

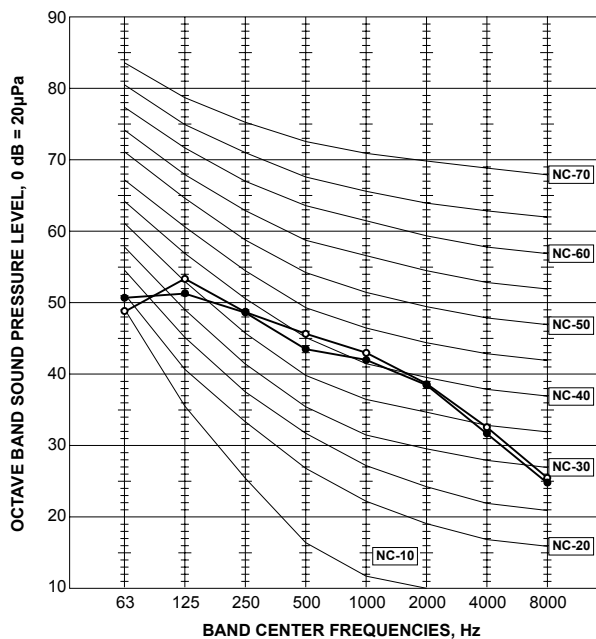
FUNCTION	SPL(dB(A))	LINE
COOLING	46	●—●
HEATING	48	○—○


MUZ-GE33VA
MUZ-GE35VA

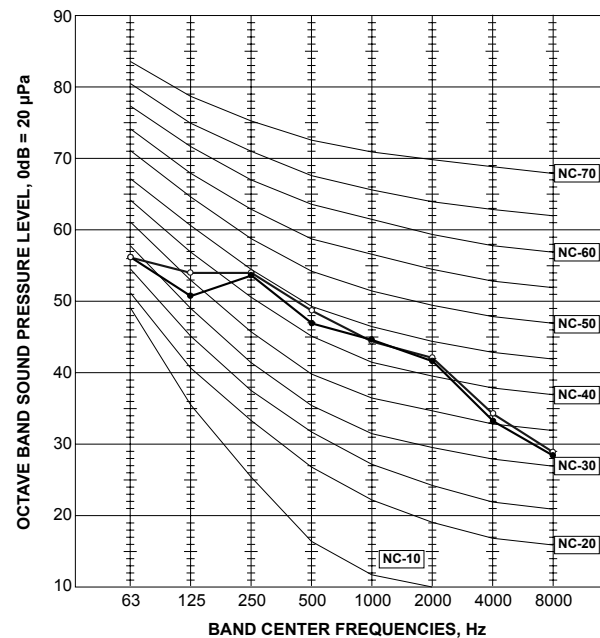
FUNCTION	SPL(dB(A))	LINE
COOLING	47	●—●
HEATING	48	○—○


MUZ-GE35VA2
MUZ-GE35VAD

FUNCTION	SPL(dB(A))	LINE
COOLING	47	●—●
HEATING	48	○—○

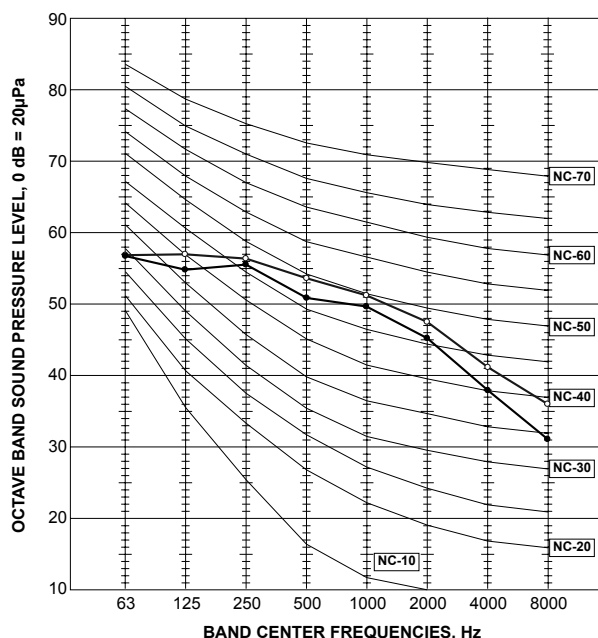

MUZ-GE42VA
MUZ-GE42VAD

FUNCTION	SPL(dB(A))	LINE
COOLING	50	●—●
HEATING	51	○—○



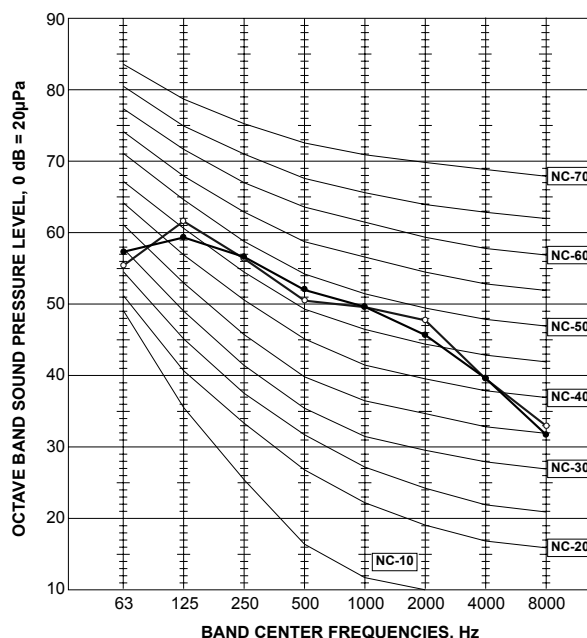
MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD

FUNCTION	SPL(dB(A))	LINE
COOLING	54	●—●
HEATING	56	○—○



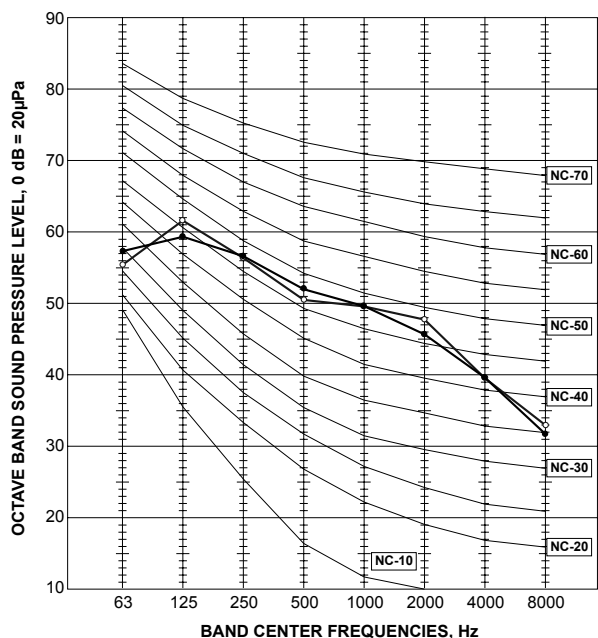
MUZ-GE60VA MUZ-GE60VAD

FUNCTION	SPL(dB(A))	LINE
COOLING	55	●—●
HEATING	55	○—○



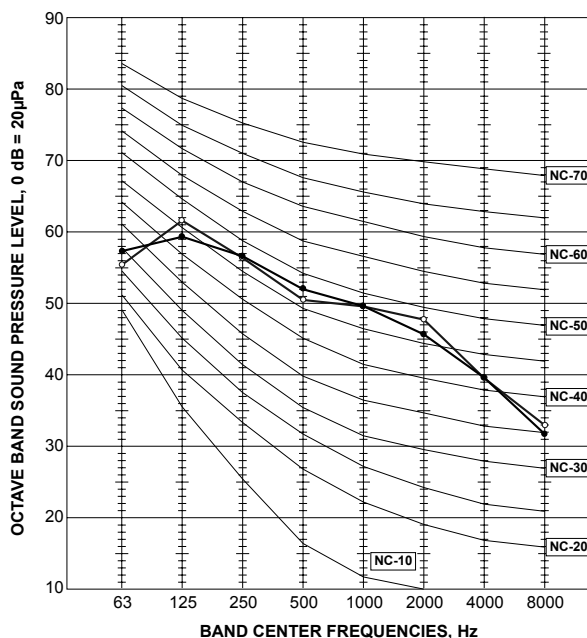
MUZ-GE71VA MUZ-GE71VAD

FUNCTION	SPL(dB(A))	LINE
COOLING	55	●—●
HEATING	55	○—○



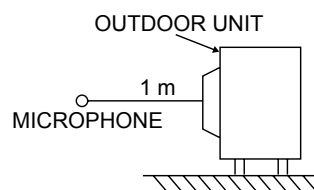
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

FUNCTION	SPL(dB(A))	LINE
COOLING	55	●—●
HEATING	55	○—○



Test conditions

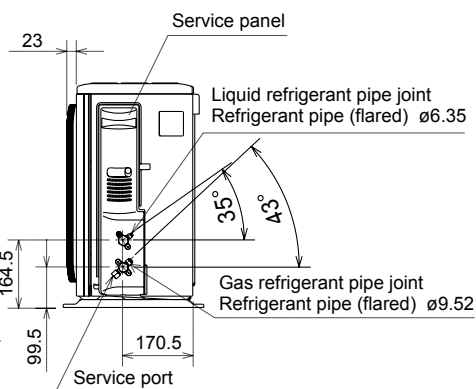
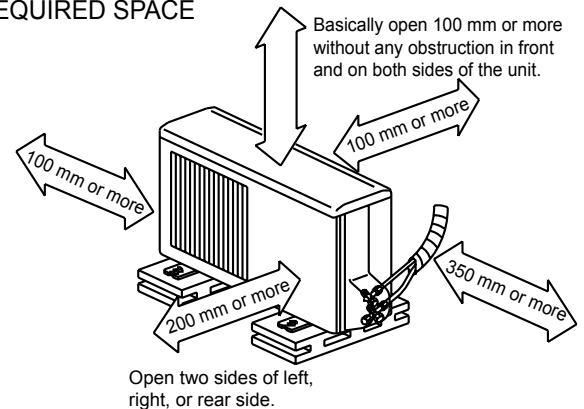
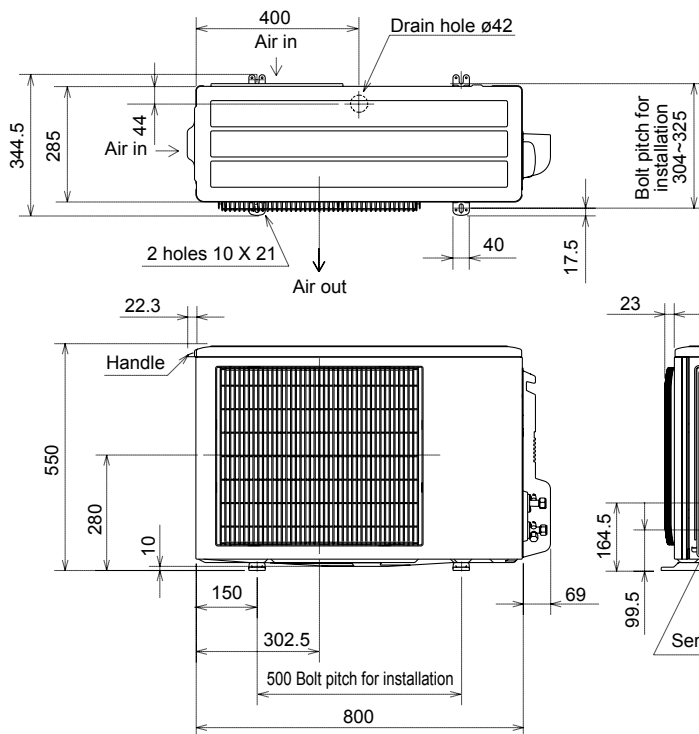
Cooling: Dry-bulb temperature 35°C Wet-bulb temperature (24°C)
Heating: Dry-bulb temperature 7°C Wet-bulb temperature 6°C



Unit: mm

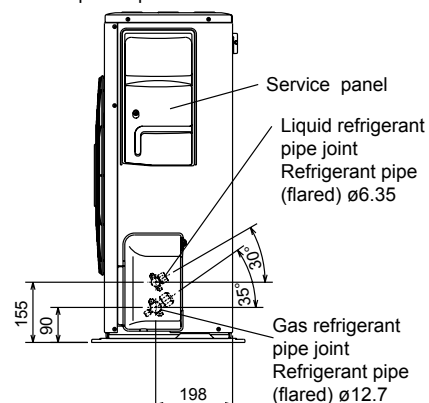
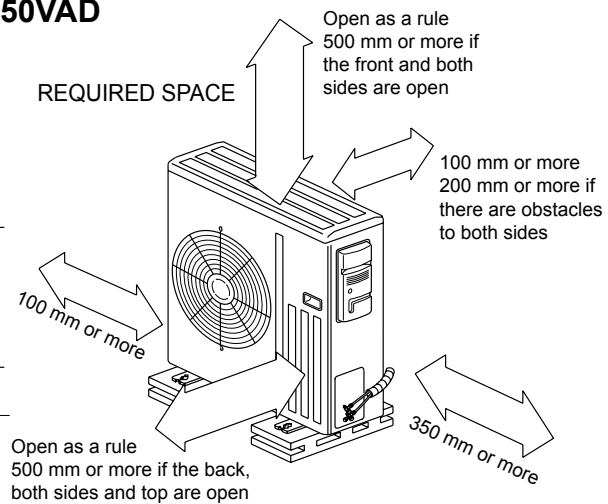
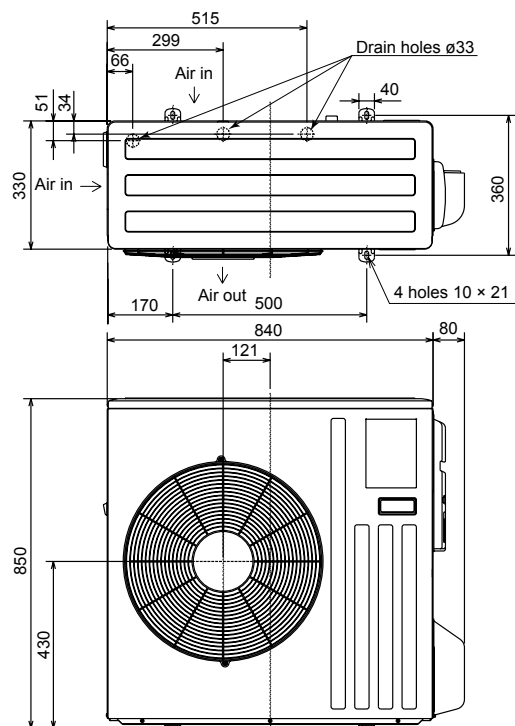
MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA
 MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD MUZ-GE42VA MUZ-GE42VAD

REQUIRED SPACE



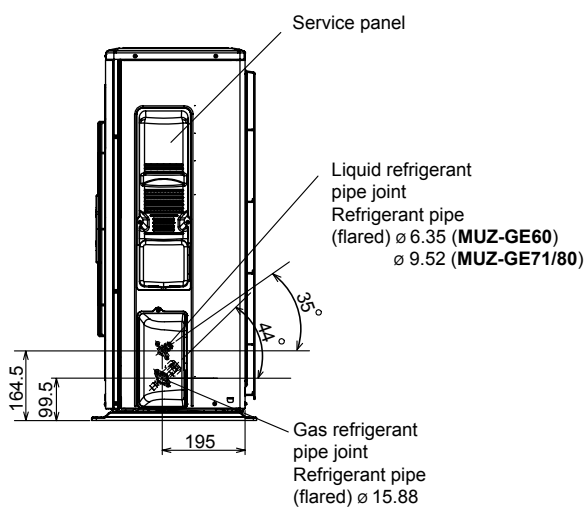
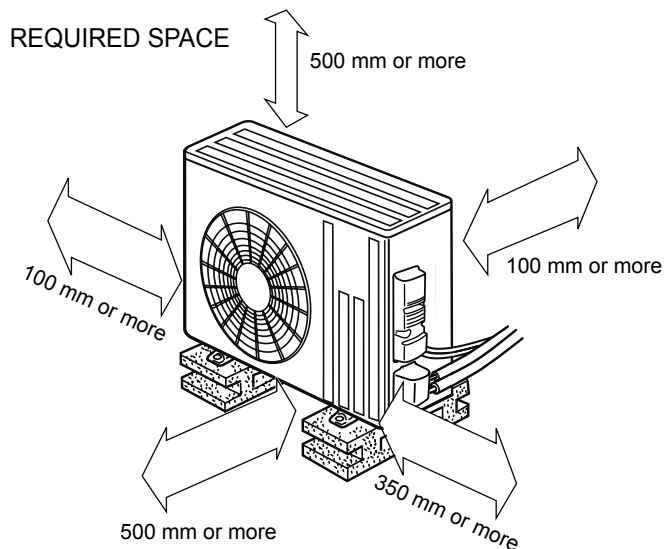
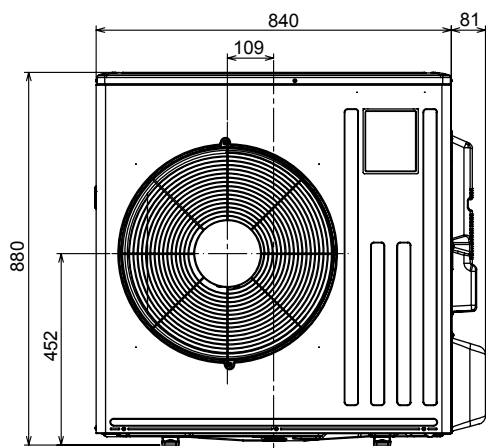
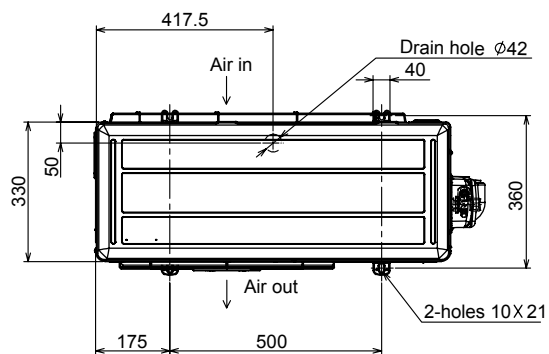
MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD

REQUIRED SPACE

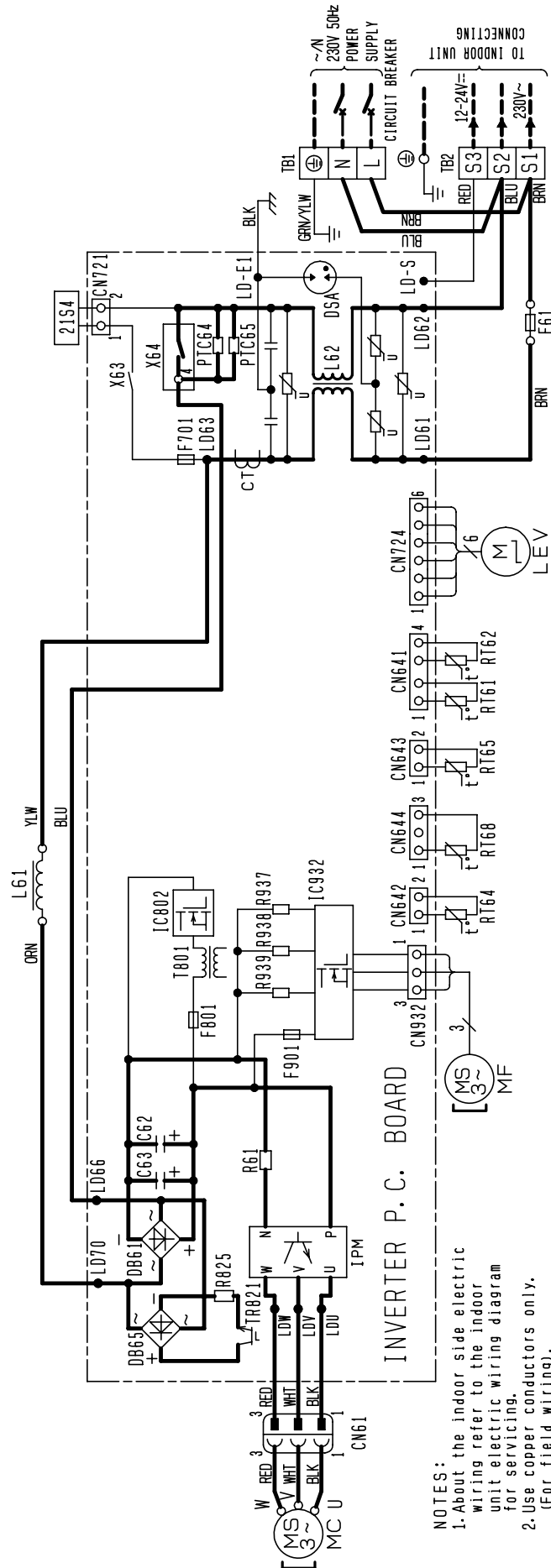


MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

Unit: mm

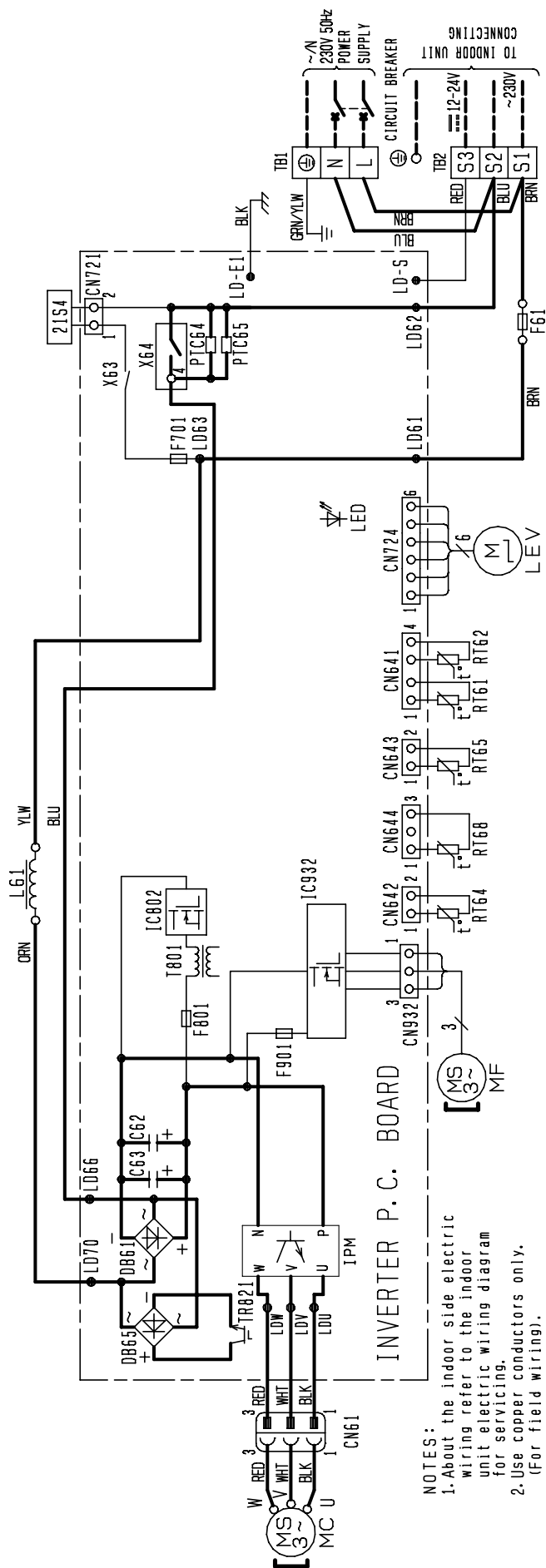


MUZ-GE25VA -[A1] MUZ-GE35VA



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CT	CURRENT TRANSFORMER	LEV	EXPANSION VALVE COIL	R61	CURRENT-DETECTING RESISTOR
C62, C63	SMOOTHING CAPACITOR	MC	COMPRESSOR	R825, R937	CURRENT-DETECTING RESISTOR
DB61, DB65	DIODE MODULE	MF	FAN MOTOR	R938, R939	CURRENT-DETECTING RESISTOR
DSA	SURGE ABSORBER	PTC64, PTC65	CIRCUIT PROTECTION	TB1, TB2	TERMINAL BLOCK
F61	FUSE (T20AL250V)	RT61	DEFROST THERMISTOR	TR821	SWITCHING POWER TRANSISTOR
F701, F801, F901	FUSE (T3.15AL250V)	RT62	DISCHARGE TEMP. THERMISTOR	T801	TRANSFORMER
IC802	INTELLIGENT POWER DEVICE	RT64	FIN TEMP. THERMISTOR	X63, X64	RELAY
IPM, IC932	INTELLIGENT POWER MODULE	RT65	AMBIENT TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
L61	REACTOR		OUTDOOR HEAT EXCHANGER		
L62	CMC COIL	RT68	TEMP. THERMISTOR.		

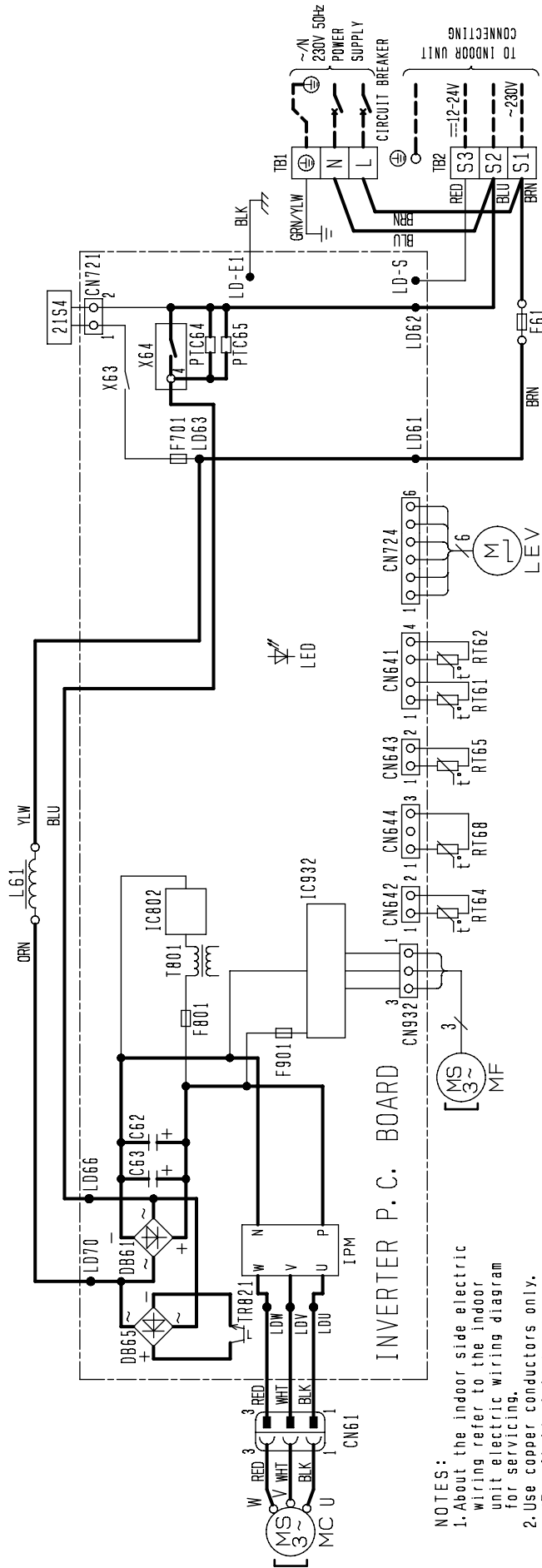
MUZ-GE33VA



NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring).

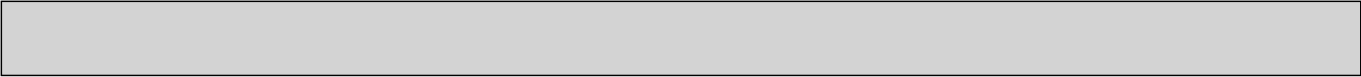
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C62, C63	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
DB61, DB65	DIODE MODULE	MC	COMPRESSOR	TB1, TB2	TERMINAL BLOCK
F61	FUSE (T20AL/250V)	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR TRANSFORMER
F701, F801, F901	FUSE (T3.15AL/250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	REVERSING VALVE COIL
IC802	POWER DEVICE	RT61	DEFROST THERMISTOR	X63, X64	REVERSING VALVE COIL
IPM, IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
LED	LED	RT64	FIN TEMP. THERMISTOR		
LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR		

MUZ-GE25VA -A2 MUZ-GE35VA2

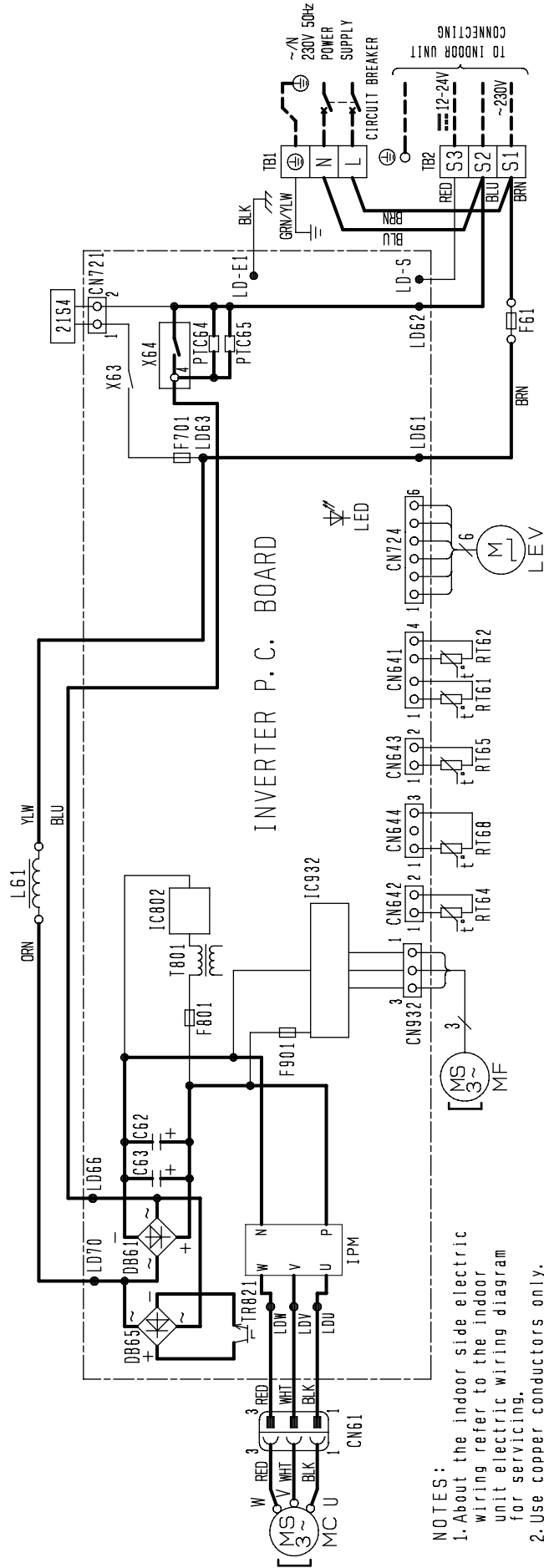


- NOTES:
- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
 - Use copper conductors only. (For field wiring).

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C62, C63	SMOOTHING CAPACITOR	MC	COMPRESSOR	TB1, TB2	TERMINAL BLOCK
DB61, DB65	DIODE MODULE	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F61	FUSE (T20AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
F701, F801, F901	FUSE (T13.15AL250V)	RT61	DEFROST THERMISTOR	X63, X64	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IPM, IC932	POWER MODULE	RT64	FIN TEMP. THERMISTOR		
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		
LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.		
L61	REACTOR				

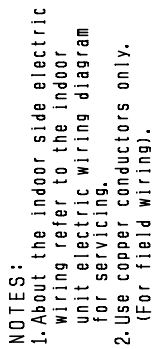


MUZ-GE25VAD MUZ-GE35VAD



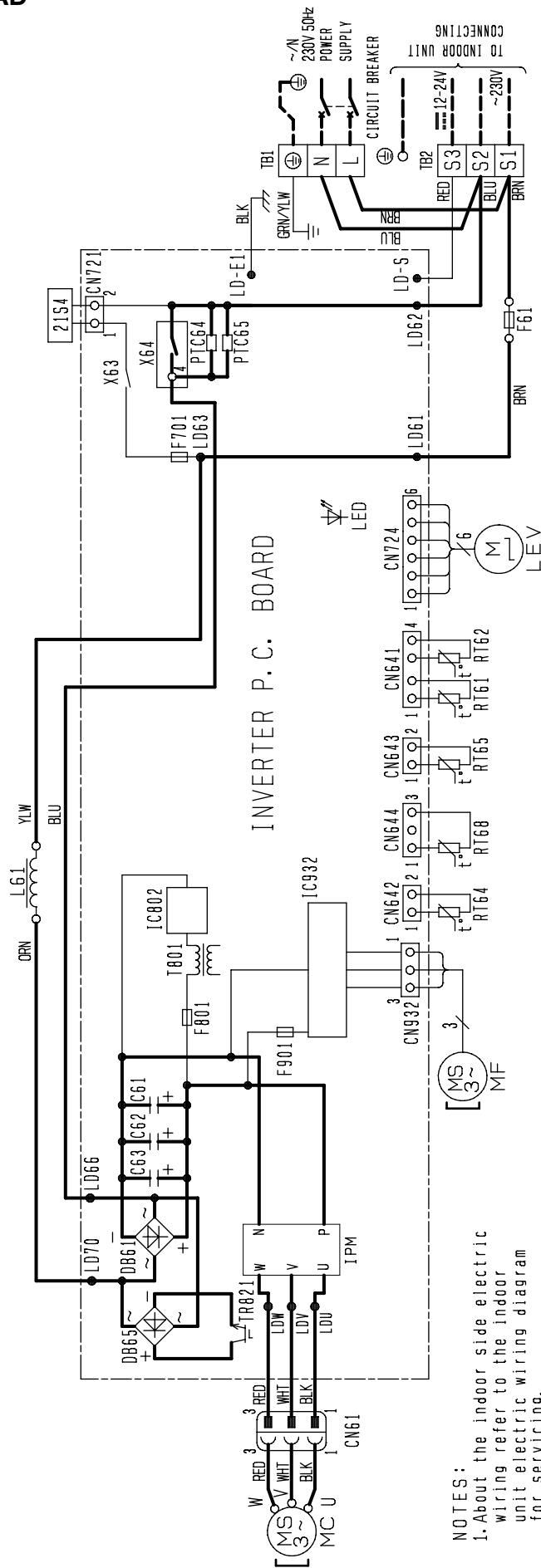
- NOTES:
- 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
 - 2. Use copper conductors only. (For field wiring).

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
G2.C3	SMOOTHING CAPACITOR	MC	COMPRESSOR	TB1, TB2	TERMINAL BLOCK
DB61, DB65	DIODE MODULE	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F61	FUSE (T20AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
F701, F801, F901	FUSE (T3, 15A, 250V)	RT61	DEFROST THERMISTOR	X63, X64	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IPM, IC932	POWER MODULE	RT64	FIN TEMP. THERMISTOR		
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		
LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.		
L61	REACTOR				



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CG1.024.063	SMOOTHING CAPACITOR	L61	REACTOR	RT69	OUTDOOR HEAT EXCHANGER
DB61, DB65	DIODE MODULE	MC	COMPRESSOR		TEMP. THERMISTOR.
F61	FUSE (120AL/250V)	MF	FAN MOTOR	TB1, TB2	TERMINAL BLOCK
F701, F801, F901	FUSE (13, 15A/250V)	PTC64, PTC65	CIRCUIT PROTECTION	TR821	SWITCHING POWER TRANSISTOR
IC802	POWER DEVICE	RT61	DEFROST THERMISTOR	T801	TRANSFORMER
IPM, IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	XG3, X64	RELAY
LED	LED	RT64	FIN TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR		

MUZ-GE42VAD

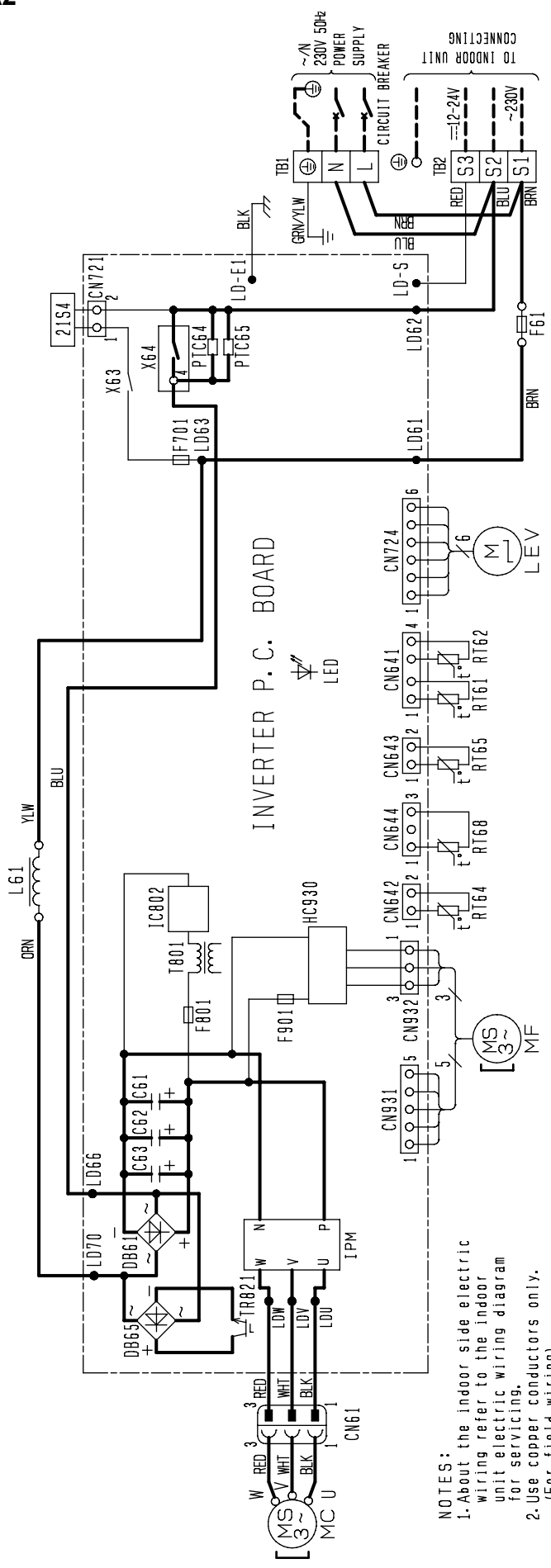


- NOTES:
- 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
 - 2. Use copper conductors only. (For field wiring).

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C61, C62, C63	SMOOTHING CAPACITOR	MC	COMPRESSOR	TB1, TB2	TERMINAL BLOCK
DB61, DB65	DIODE MODULE	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F61	FUSE (T20AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
F701, F801, F901	FUSE (T3, 15AL250V)	RT61	DEFROST THERMISTOR	X63, X64	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IPM, IC932	POWER MODULE	RT64	FIN TEMP. THERMISTOR		
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		
LEV	EXPANSION VALVE COIL		OUTDOOR HEAT EXCHANGER		
L61	REACTOR	RT68	TEMP. THERMISTOR.		

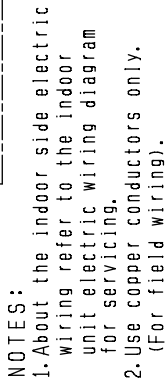
21

MUZ-GE50VA2



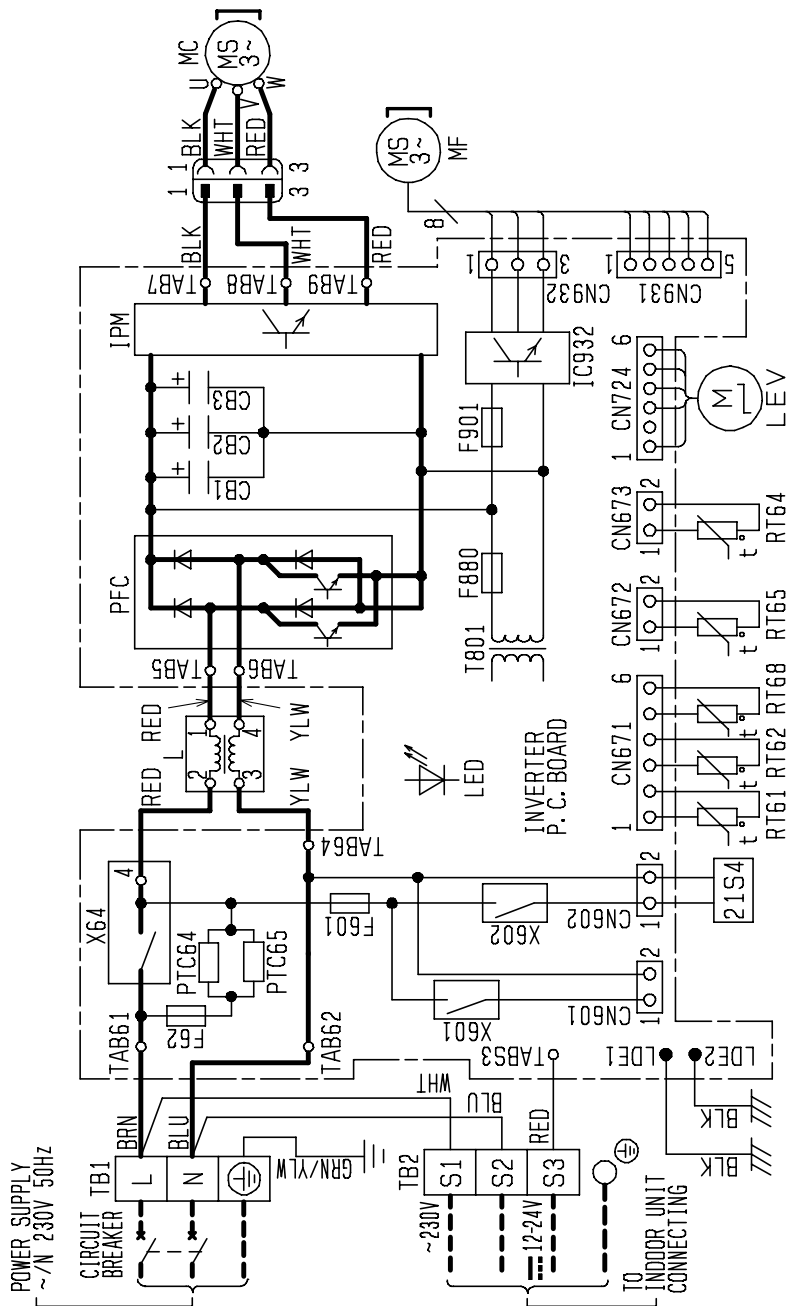
- NOTES:
- 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
 - 2. Use copper conductors only. (For field wiring).

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C61, C62, C63	SMOOTHING CAPACITOR	MC	COMPRESSOR	TB1, TB2	TERMINAL BLOCK
DB61, DB65	DIODE MODULE	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F61	FUSE (T20AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
F701, F801, F901	FUSE (T3, T5AL250V)	RT61	DEFROST THERMISTOR	X63, X64	REVERSE VALVE COIL
HC930, IPM	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR		
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		
LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER		
L61	REACTOR		TEMP. THERMISTOR.		



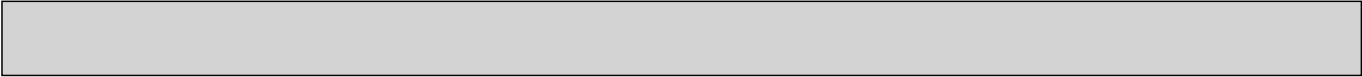
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C61,C62,C63	SMOOTHING CAPACITOR	MC	COMPRESSOR	TB1,TB2	TERMINAL BLOCK
D861,D865	DIODE MODULE	MF	FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F61	FUSE (120AL250V)	PTC64,PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
F701,F801,F901	FUSE (4T3,15AL250V)	RT61	DEFROST THERMISTOR	X63,X64	RELAY
HC930,1PM	POWER MODULE	RT62	DISCHARGE TEMP.THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP.THERMISTOR		
LED	LED	RT65	AMBIENT TEMP.THERMISTOR		
LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP.THERMISTOR		
F61	DEACTOP				

MUZ-GE60VA MUZ-GE71VA MUZ-GE80VA

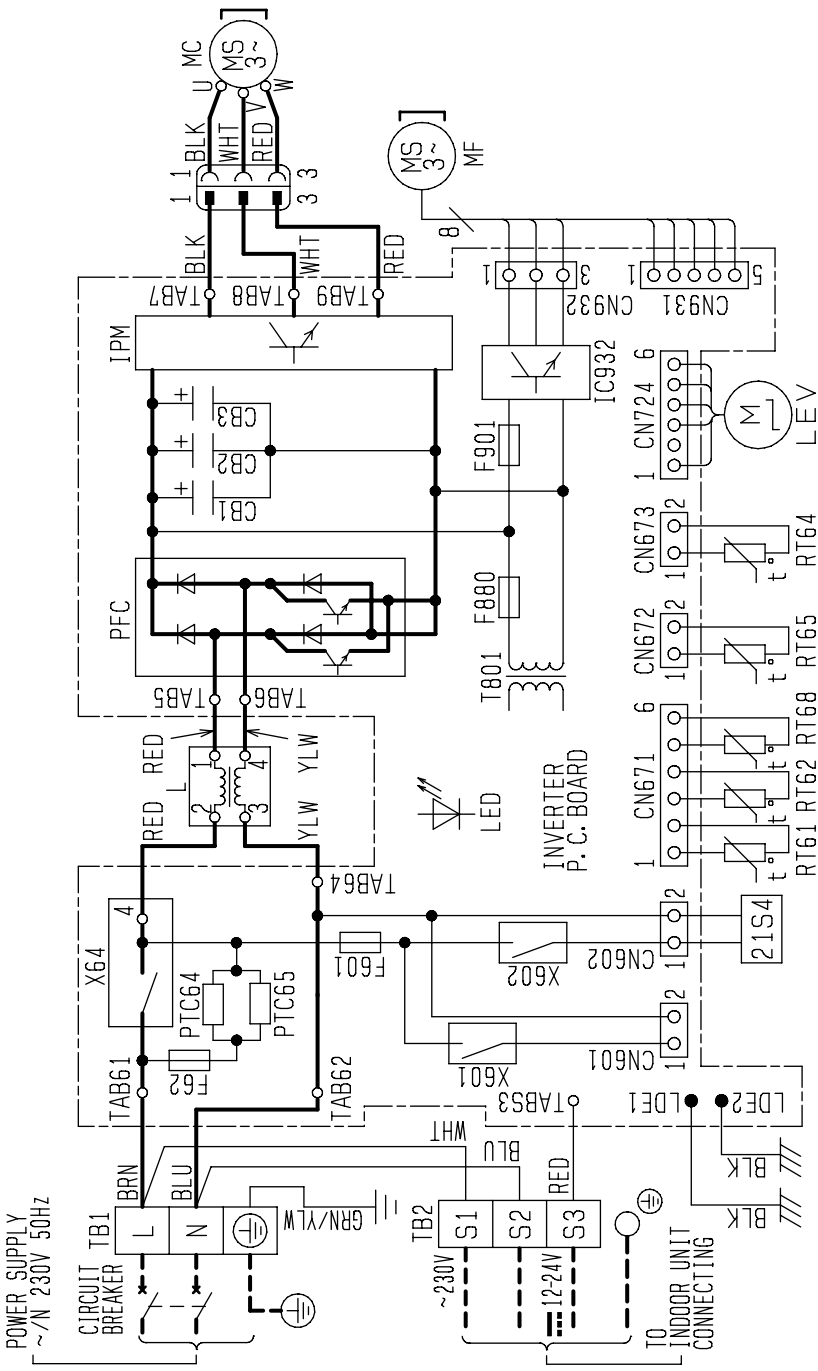


NOTES 1.About the indoor side electric wiring,
refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only for field wiring).
3.Symbols indicate. □:terminal block

SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	PTC65	CIRCUIT PROTECTION
F601	FUSE (T3, 15AL250V)	RT61	DEFROST THERMISTOR
F62	FUSE (T2AL250V)	RT62	DISCHARGE TEMP.THERMISTOR
F880	FUSE (T3, 15AL250V)	RT64	FIN TEMP.THERMISTOR
F901	FUSE (T3, 15AL250V)	RT65	AMBIENT TEMP.THERMISTOR
IC932	INTELLIGENT POWER MODULE	RT68	OUTDOOR HEAT EXCHANGER TEMP.THERMISTOR
IPM	INTELLIGENT POWER MODULE	TB1, TB2	TERMINAL BLOCK
L	REACTOR	TB01	TRANSFORMER
LEV	EXPANSION VALVE COIL	X601	RELAY
MC	COMPRESSOR	X602	RELAY
MF	FAN MOTOR	X64	RELAY
PFC	POWER FACTOR CONTROLLER	21S4	REVERSING VALVE SOLENOID COIL
PTC64	CIRCUIT PROTECTION		



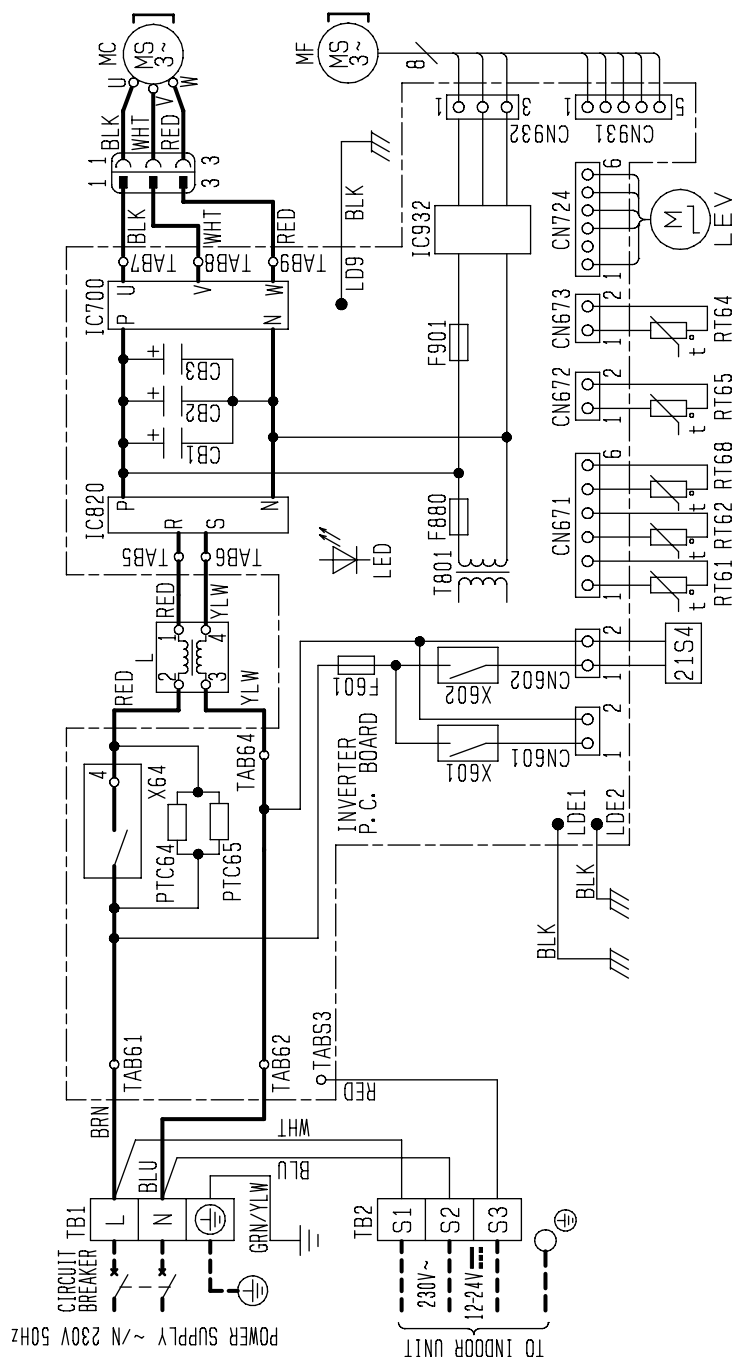
MUZ-GE80VA2



SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	PTC65	CIRCUIT PROTECTION
F601	FUSE (T3. 15AL250V)	RT61	DEFROST THERMISTOR
F602	FUSE (T2AL250V)	RT62	DISCHARGE TEMP. THERMISTOR
F603	FUSE (T3. 15AL250V)	RT64	FIN TEMP. THERMISTOR
F604	FUSE (T3. 15AL250V)	RT65	AMBIENT TEMP. THERMISTOR
F605	FUSE (T3. 15AL250V)	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
IC932	INTELLIGENT POWER MODULE		
IPM	INTELLIGENT POWER MODULE		
L	REACTOR	TB1, TB2	TERMINAL BLOCK
LEV	EXPANSION VALVE COIL	T801	TRANSFORMER
MC	COMPRESSOR	X601	RELAY
MF	FAN MOTOR	X602	RELAY
PFC	POWER FACTOR CONTROLLER	X64	RELAY
PTC64	CIRCUIT PROTECTION	21S4	REVERSING VALVE SOLENOID COIL

NOTES 1. About the indoor side electric wiring,
refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only (for field wiring).
3. Symbols indicate. □□□: terminal block

MUZ-GE60VAD MUZ-GE71VAD MUZ-GE80VAD

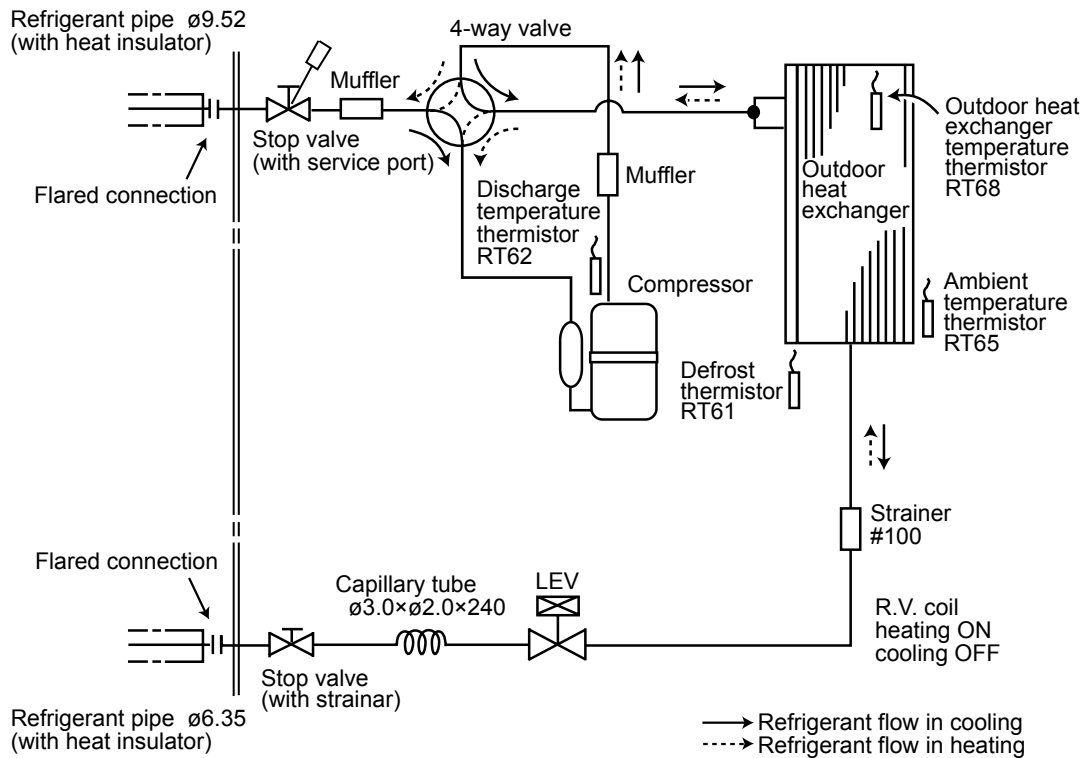


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1 ~ 3	SMOOTHING CAPACITOR	L	REACTOR	RT61	DEFROST THERMISTOR
F601	FUSE (13.15A/250V)	LED	LED	RT62	DISCHARGE TEMP. THERMISTOR
F880	FUSE (13.15A/250V)	LEV	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR
F901	FUSE (13.15A/250V)	MC	COMPRESSOR	RT65	AMBIENT TEMP. THERMISTOR
IC700	IGBT Module	MF	FAN MOTOR	RT68	OUTDOOR HEAT EXCHANGER
IC820	Diode Module	PTC64	CIRCUIT PROTECTION	21S4	REVERSING VALVE SOLENOID COIL
IC932	IGBT Module	PTC65	CIRCUIT PROTECTION		
		TB1, TB2	TERMINAL BLOCK		

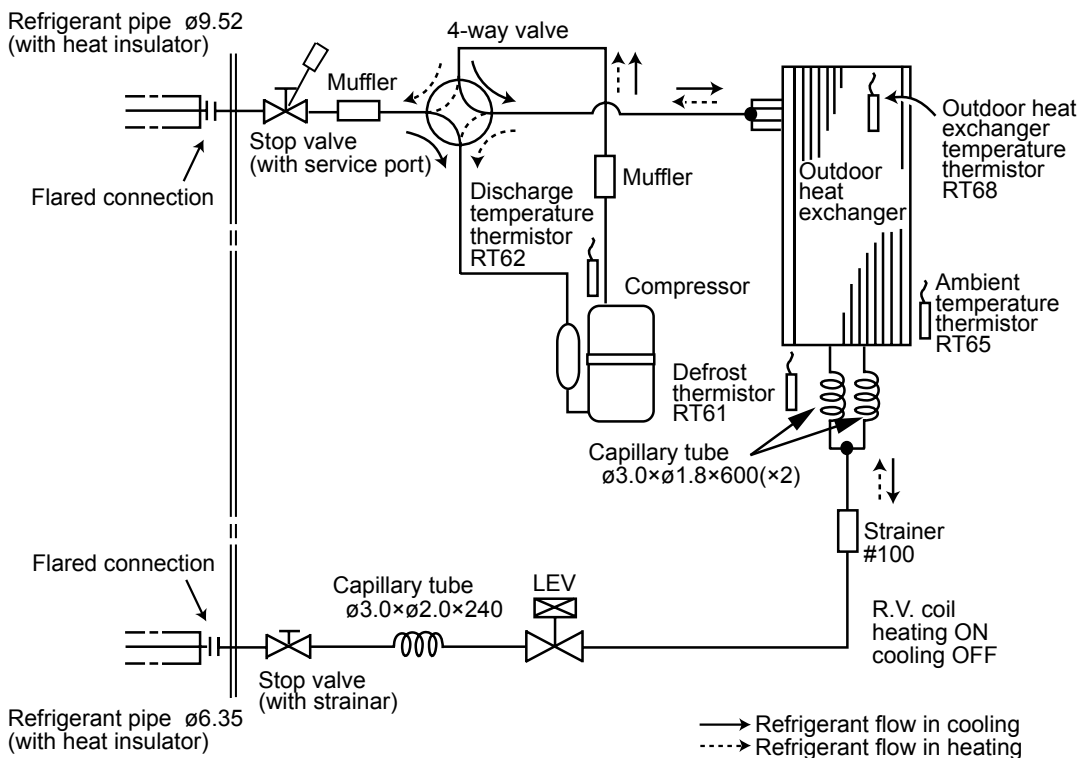
NOTES 1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only (for field wiring). 3. Symbols indicate, : terminal block

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA

Unit: mm

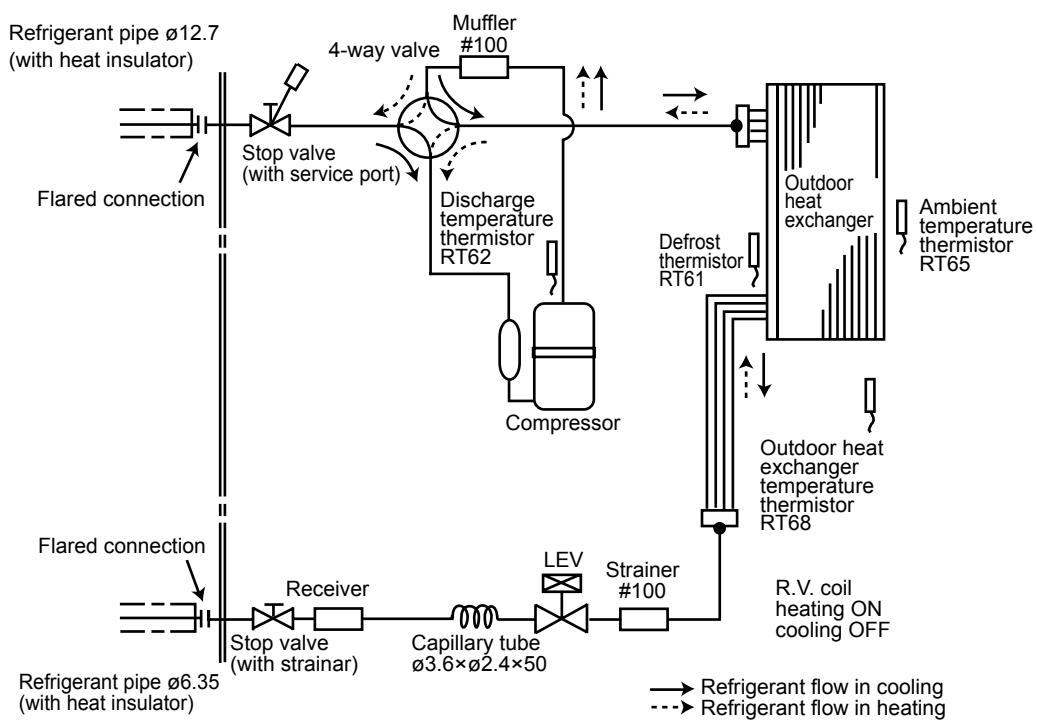


MUZ-GE35VA2 MUZ-GE35VAD MUZ-GE42VA MUZ-GE42VAD

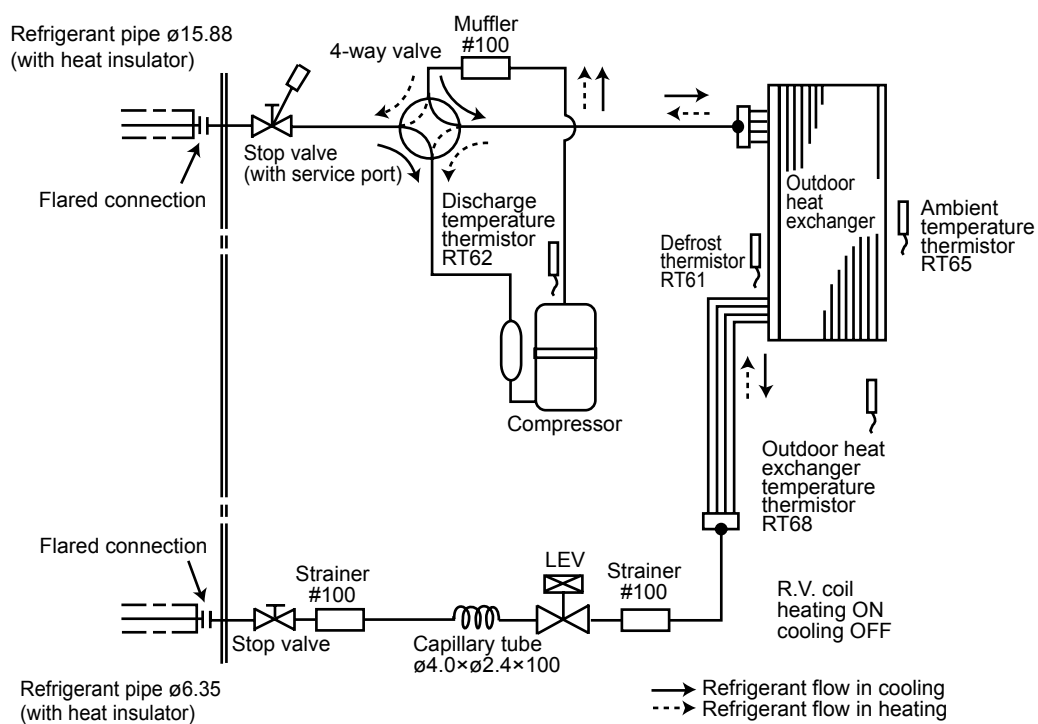


MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD

Unit: mm

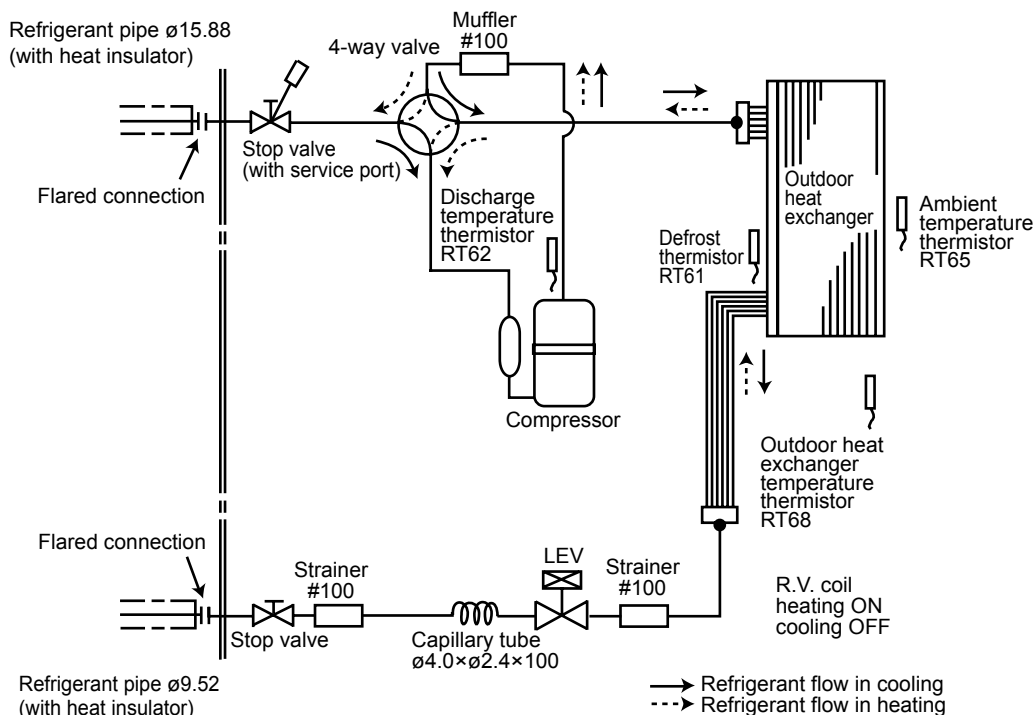


MUZ-GE60VA MUZ-GE60VAD



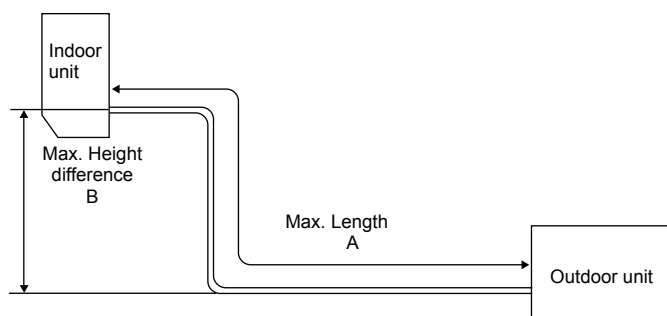
MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

Unit: mm



MAX. REFRIGERANT PIPING LENGTH and MAX. HEIGHT DIFFERENCE

	Refrigerant piping: m		Piping size O.D: mm	
	Max. Length A	Max. Height difference B	Gas	Liquid
MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD MUZ-GE42VA MUZ-GE42VAD	20	12	9.52	6.35
MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD	30	15	12.7	
MUZ-GE60VA MUZ-GE60VAD			15.88	
MUZ-GE71VA MUZ-GE71VAD				
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD				9.52



ADDITIONAL REFRIGERANT CHARGE (R410A: g)

Model	Outdoor unit precharged	Refrigerant piping length (one way)											
		5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m	14 m	15 m	20 m
MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA	800	0	0	0	30	60	90	120	150	180	210	240	390
MUZGE35VA2 MUZGE35VAD MUZ-GE42VA MUZ-GE42VAD	1,150												

Calculation: $X \text{ g} = 30 \text{ g/m} \times (\text{Refrigerant piping length (m)} - 7)$

Model	Outdoor unit precharged	Refrigerant piping length (one way)					
		7 m	10 m	15 m	20 m	25 m	30 m
MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD	1,550	0	60	160	260	360	460

Calculation: $X \text{ g} = 20 \text{ g/m} \times (\text{Refrigerant piping length (m)} - 7)$

Model	Outdoor unit precharged	Refrigerant piping length (one way)					
		7 m	10 m	15 m	20 m	25 m	30 m
MUZ-GE60VA MUZ-GE60VAD	1,550	0	0	100	200	300	400

Calculation: $X \text{ g} = 20 \text{ g/m} \times (\text{Refrigerant piping length (m)} - 10)$

Model	Outdoor unit precharged	Refrigerant piping length (one way)					
		7 m	10 m	15 m	20 m	25 m	30 m
MUZ-GE71VA MUZ-GE71VAD MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD	1,900	0	0	275	550	825	1,100

Calculation: $X \text{ g} = 55 \text{ g/m} \times (\text{Refrigerant piping length (m)} - 10)$

NOTE: Refrigerant piping exceeding 7 m (**MUZ-GE25/33/35/42/50**) or 10 m (**MUZ-GE60/71/80**) requires additional refrigerant charge according to the calculation.

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
 MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD
 MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
 MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

The standard specifications apply only to the operation of the air conditioner under normal conditions. Since operating conditions vary according to the areas where these units are installed, the following information has been provided to clarify the operating characteristics of the air conditioner under the conditions indicated by the performance curve.

(1) GUARANTEED VOLTAGE

198 ~ 264 V, 50 Hz

(2) AIR FLOW

Air flow should be set at MAX.

(3) MAIN READINGS

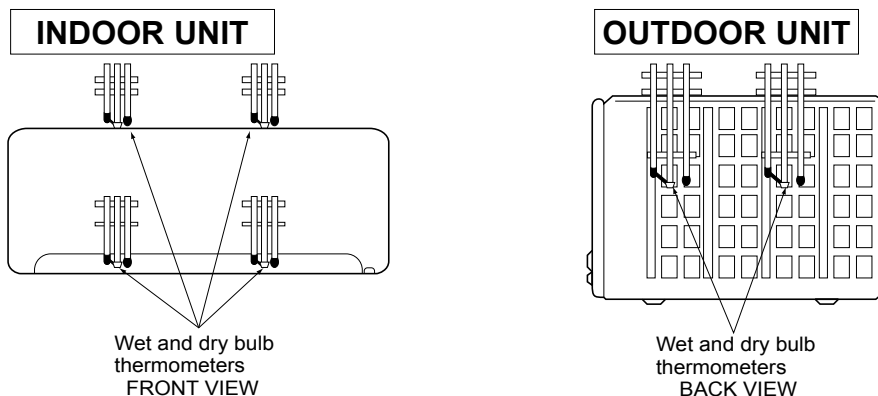
- (1) Indoor intake air wet-bulb temperature:
- (2) Indoor outlet air wet-bulb temperature:
- (3) Outdoor intake air dry-bulb temperature:
- (4) Total input:
- (5) Indoor intake air dry-bulb temperature:
- (6) Outdoor intake air wet-bulb temperature:
- (7) Total input:

°C [WB]	}	Cooling
°C [WB]		
°C [DB]		
W	}	Heating
°C [DB]		
°C [WB]		
W		

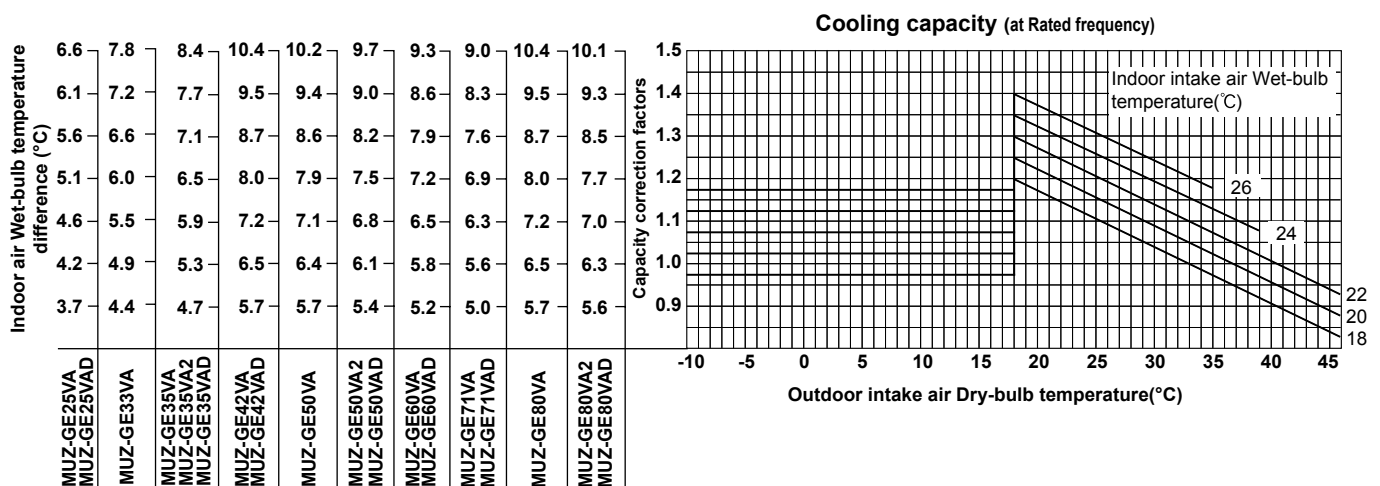
Indoor air wet and dry bulb temperature difference on the left side of the following chart shows the difference between the indoor intake air wet and dry bulb temperature and the indoor outlet air wet and dry bulb temperature for your reference at service.

How to measure the indoor air wet and dry bulb temperature difference

1. Attach at least 2 sets of wet and dry bulb thermometers to the indoor air intake as shown in the figure, and at least 2 sets of wet and dry bulb thermometers to the indoor air outlet. The thermometers must be attached to the position where air speed is high.
2. Attach at least 2 sets of wet and dry bulb thermometers to the outdoor air intake.
3. Cover the thermometers to prevent direct rays of the sun.
4. Check that the air filter is cleaned.
5. Open windows and doors of room.
6. Press the EMERGENCY OPERATION switch once (twice) to start the EMERGENCY COOL (HEAT) MODE.
7. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature.
8. 10 minutes later, measure temperature again and check that the temperature does not change.

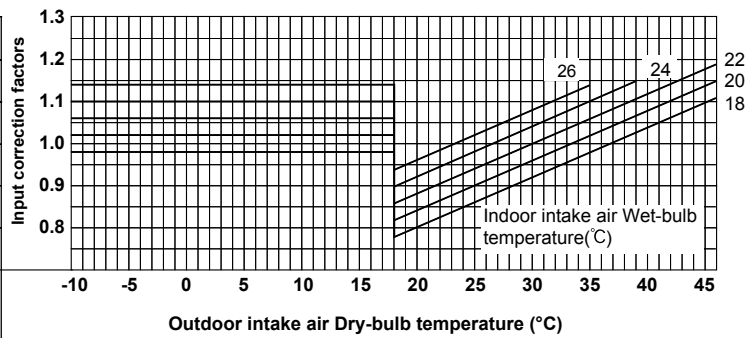


8-1. CAPACITY AND INPUT CURVES



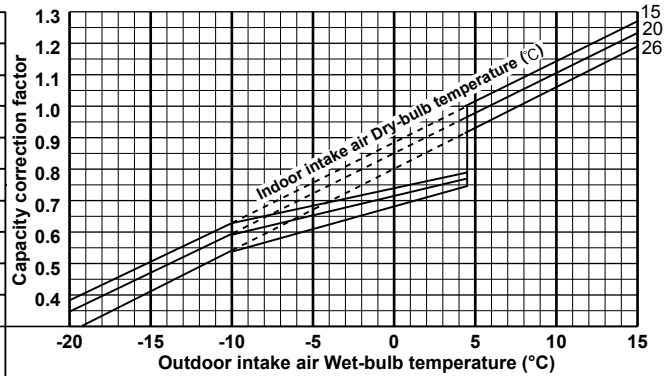
Indoor air Wet-bulb temperature difference (°C)	5.6	6.6	7.1	8.7	8.6	8.2	7.9	7.6	8.7	8.5
	5.1	6.0	6.5	8.0	7.9	7.5	7.2	6.9	8.0	7.7
	4.6	5.5	5.9	7.2	7.1	6.8	6.5	6.3	7.2	7.0
	4.2	4.9	5.3	6.5	6.4	6.1	5.8	5.6	6.5	6.3
	3.7	4.4	4.7	5.7	5.7	5.4	5.2	5.0	5.7	5.6
	3.3	3.9	4.1	5.0	5.0	4.8	4.6	4.4	5.0	4.9
	MUZ-GE25VA MUZ-GE25VAD	MUZ-GE33VA	MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD	MUZ-GE42VA MUZ-GE42VAD	MUZ-GE50VA	MUZ-GE50VA2 MUZ-GE50VAD	MUZ-GE60VA MUZ-GE60VAD	MUZ-GE71VA MUZ-GE71VAD	MUZ-GE80VA	MUZ-GE80VA2 MUZ-GE80VAD

Total input (Cooling : at Rated frequency)



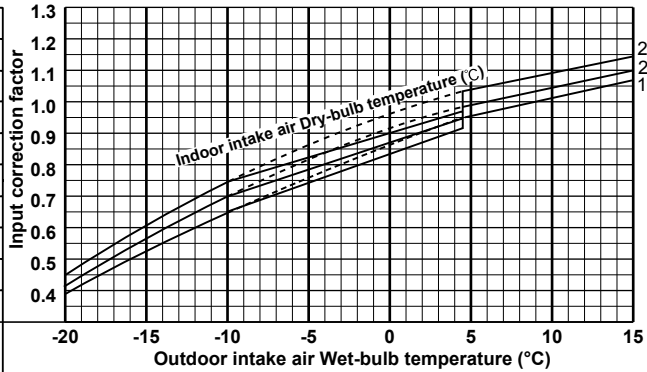
Indoor air Dry-bulb temperature difference (°C)	18.2	22.7	27.0	26.2	20.0	23.8	26.4
	16.8	21.0	24.9	24.1	18.5	21.9	24.4
	15.4	19.2	22.8	22.1	16.9	20.1	22.3
	14.0	17.5	20.7	20.1	15.4	18.3	20.3
	12.6	15.7	18.7	18.1	13.9	16.4	18.3
	11.2	14.0	16.6	16.1	12.3	14.6	16.2
	9.8	12.2	14.5	14.1	10.8	12.8	14.2
	8.4	10.5	12.4	12.1	9.2	11.0	12.2
	7.0	8.7	10.4	10.1	7.7	9.1	10.2
	5.6	7.0	8.3	8.0	6.2	7.3	8.1
	MUZ-GE25VA MUZ-GE25VAD	MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD	MUZ-GE42VA MUZ-GE42VAD	MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD	MUZ-GE60VA MUZ-GE60VAD	MUZ-GE71VA MUZ-GE71VAD	MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

Heating capacity (at Rated frequency)



Indoor air Dry-bulb temperature difference (°C)	18.2	22.7	27.0	26.2	20.0	23.8	26.4
	16.8	21.0	24.9	24.1	18.5	21.9	24.4
	15.4	19.2	22.8	22.1	16.9	20.1	22.3
	14.0	17.5	20.7	20.1	15.4	18.3	20.3
	12.6	15.7	18.7	18.1	13.9	16.4	18.3
	11.2	14.0	16.6	16.1	12.3	14.6	16.2
	9.8	12.2	14.5	14.1	10.8	12.8	14.2
	8.4	10.5	12.4	12.1	9.2	11.0	12.2
	7.0	8.7	10.4	10.1	7.7	9.1	10.2
	5.6	7.0	8.3	8.0	6.2	7.3	8.1
	MUZ-GE25VA MUZ-GE25VAD	MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD	MUZ-GE42VA MUZ-GE42VAD	MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD	MUZ-GE60VA MUZ-GE60VAD	MUZ-GE71VA MUZ-GE71VAD	MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

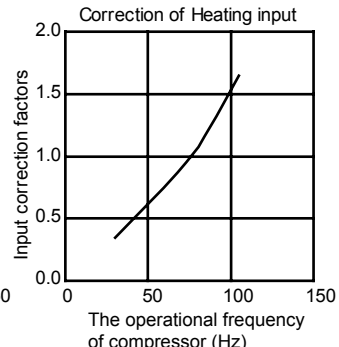
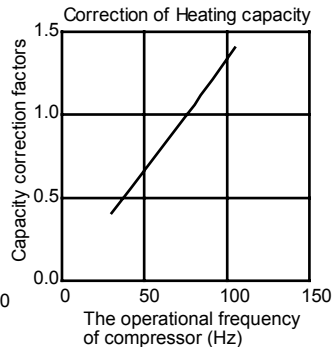
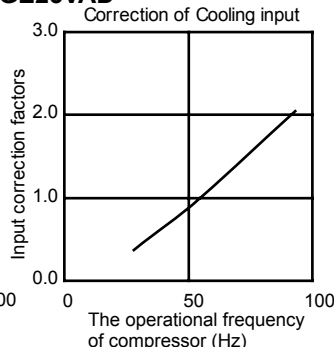
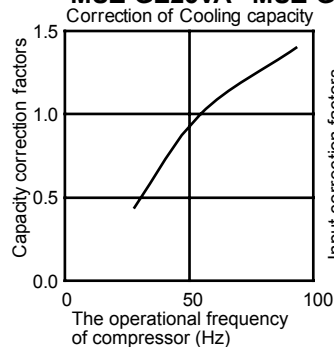
Total input (Heating : at Rated frequency)



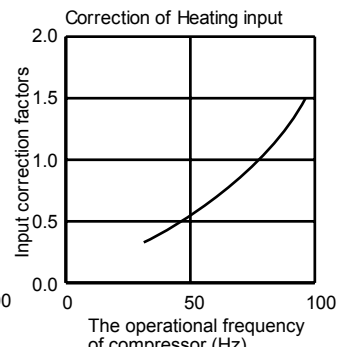
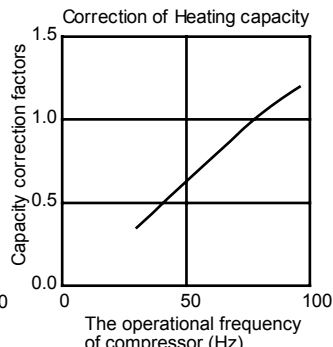
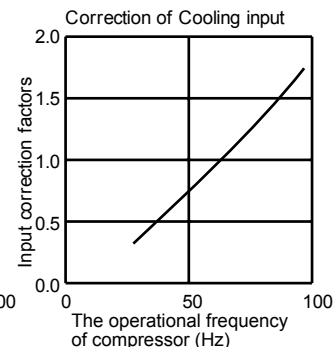
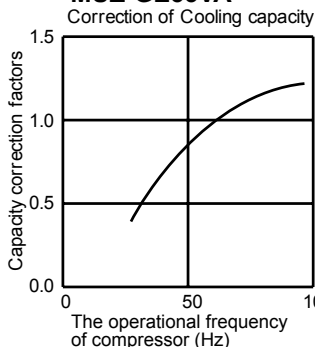
NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

8-2. CAPACITY AND INPUT CORRECTION BY OPERATIONAL FREQUENCY OF COMPRESSOR

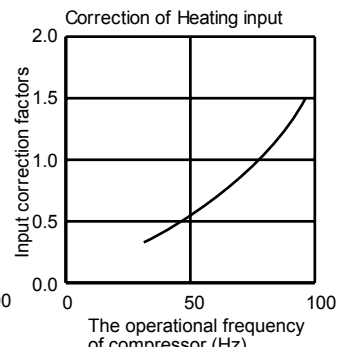
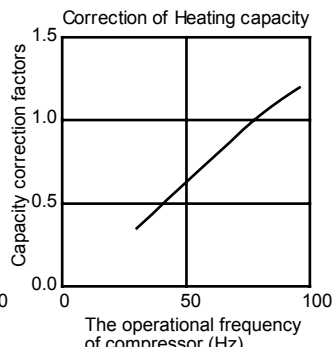
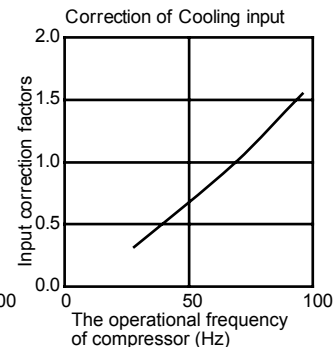
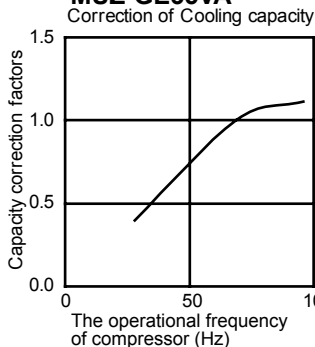
MUZ-GE25VA MUZ-GE25VAD



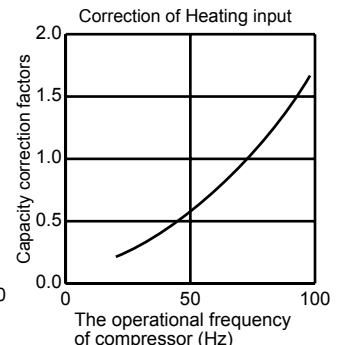
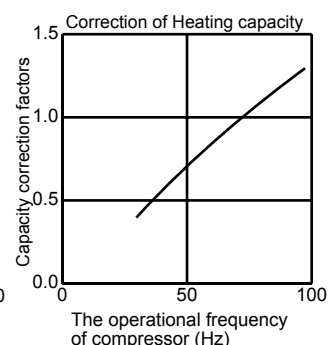
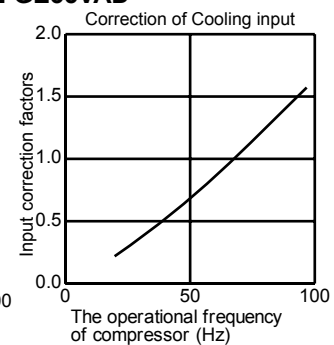
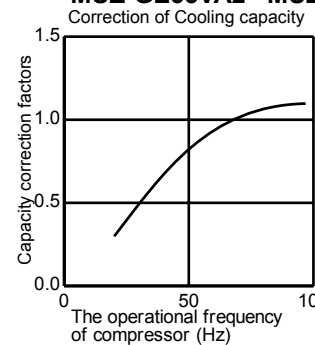
MUZ-GE33VA



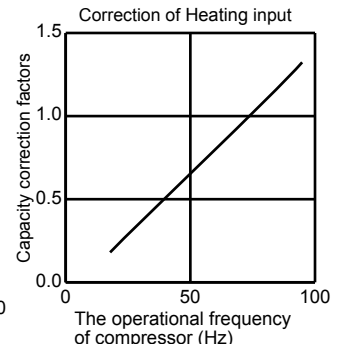
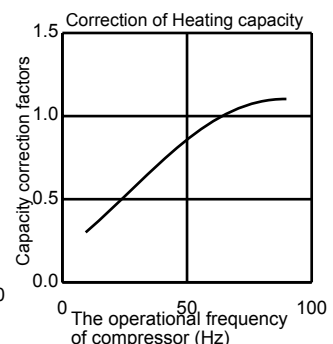
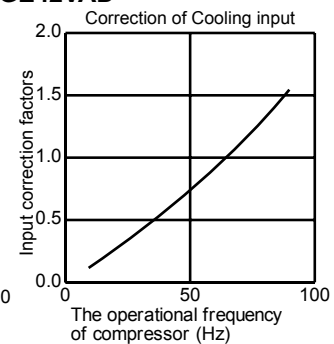
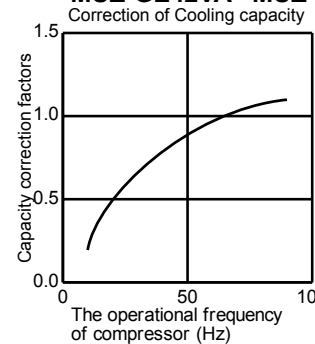
MUZ-GE35VA



MUZ-GE35VA2 MUZ-GE35VAD

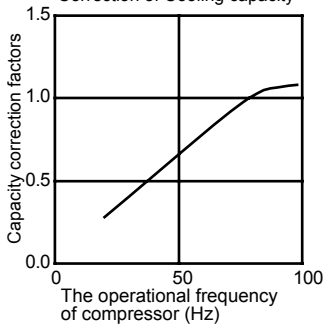


MUZ-GE42VA MUZ-GE42VAD

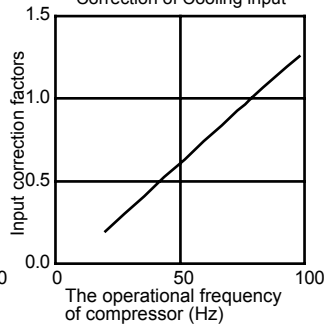


MUZ-GE50VA

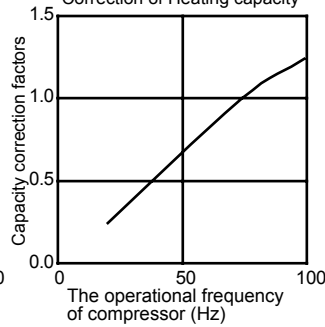
Correction of Cooling capacity



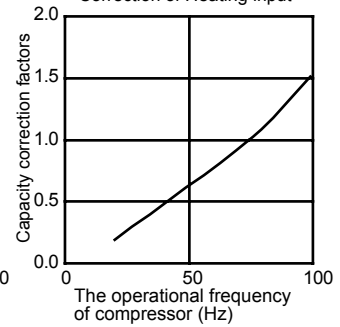
Correction of Cooling input



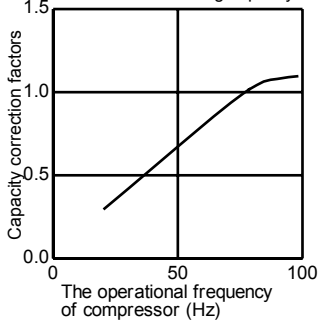
Correction of Heating capacity



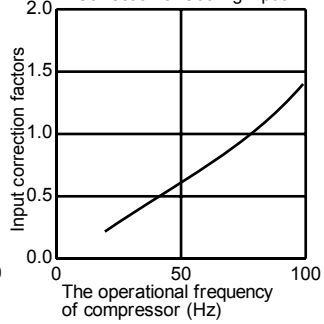
Correction of Heating input

**MUZ-GE50VA2 MUZ-GE50VAD**

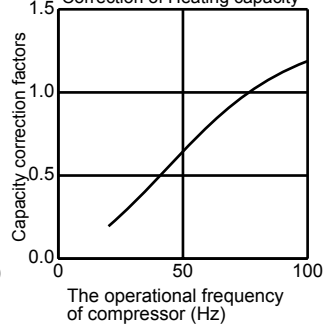
Correction of Cooling capacity



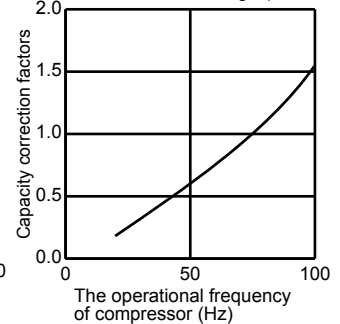
Correction of Cooling input



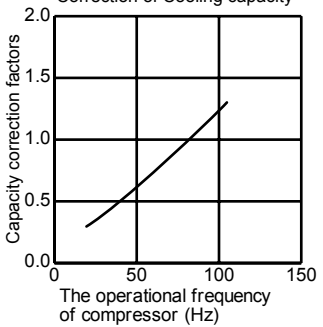
Correction of Heating capacity



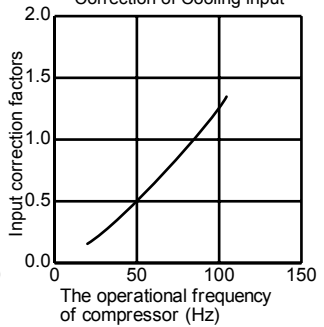
Correction of Heating input

**MUZ-GE60VA MUZ-GE60VAD**

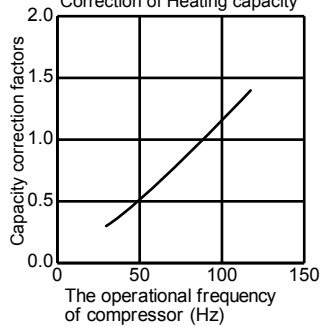
Correction of Cooling capacity



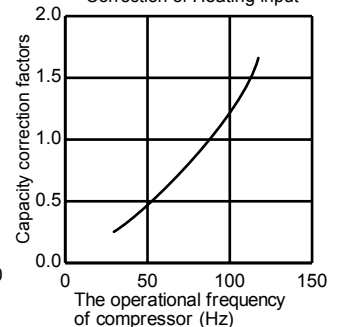
Correction of Cooling input



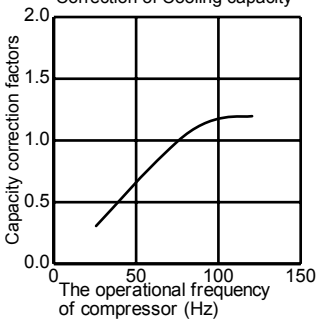
Correction of Heating capacity



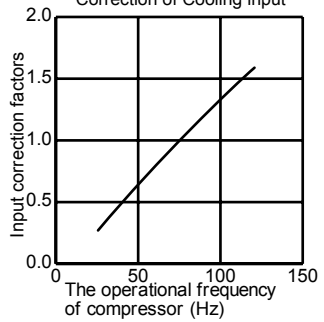
Correction of Heating input

**MUZ-GE71VA MUZ-GE71VAD**

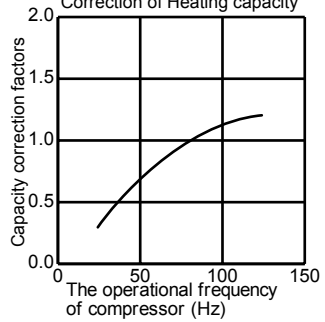
Correction of Cooling capacity



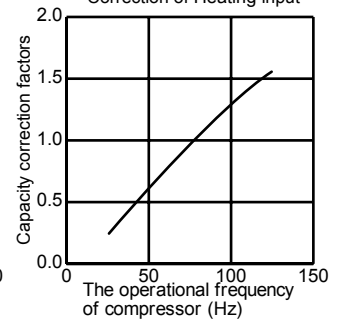
Correction of Cooling input



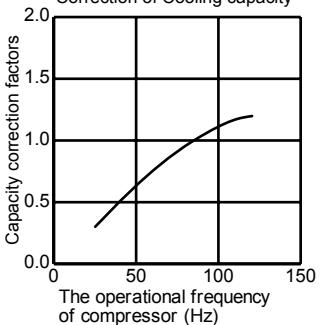
Correction of Heating capacity



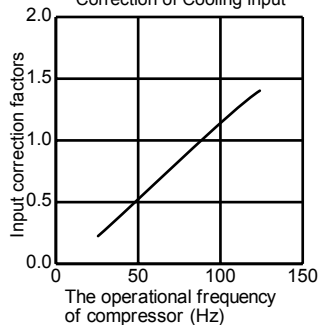
Correction of Heating input

**MUZ-GE80VA**

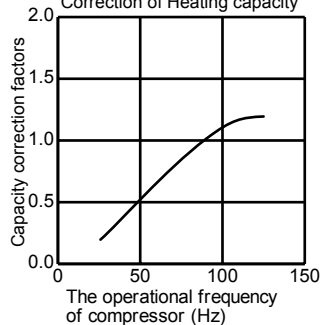
Correction of Cooling capacity



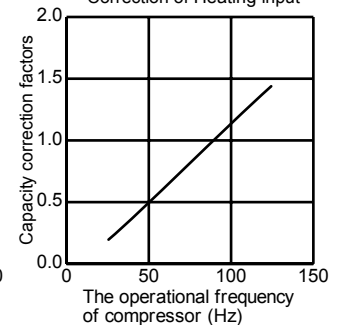
Correction of Cooling input



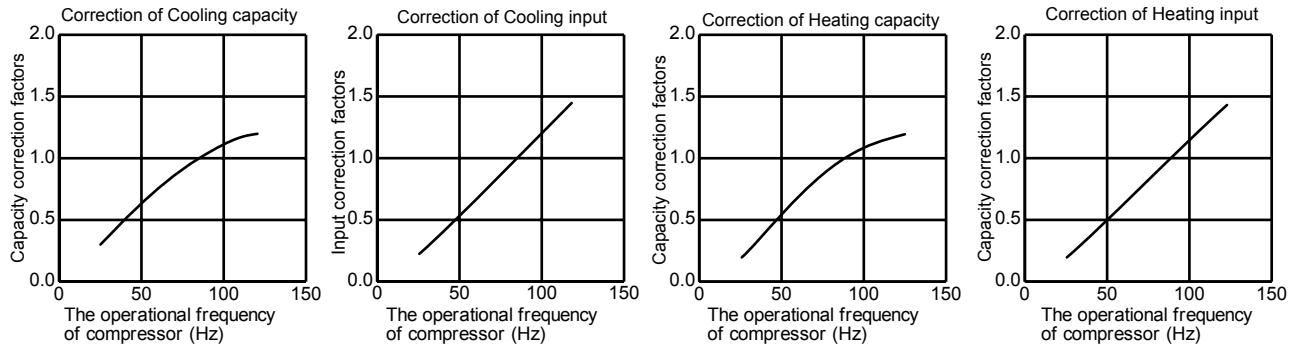
Correction of Heating capacity



Correction of Heating input



MUZ-GE80VA2 MUZ-GE80VAD



8-3. TEST RUN OPERATION (How to operate fixed-frequency operation)

1. Press EMERGENCY OPERATION switch to start COOL or HEAT mode (COOL: Press once, HEAT: Press twice).
2. Test run operation starts and continues to operate for 30 minutes.
3. Compressor operates at rated frequency in COOL mode or 58 Hz (MUZ-GE25/33/35/42/50/60)/74 Hz (MUZ-GE71/80) in HEAT mode.
4. Indoor fan operates at High speed.
5. After 30 minutes, test run operation finishes and EMERGENCY OPERATION starts (operation frequency of compressor varies).
6. To cancel test run operation (EMERGENCY OPERATION), press EMERGENCY OPERATION switch or any button on remote controller.

8-4. OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

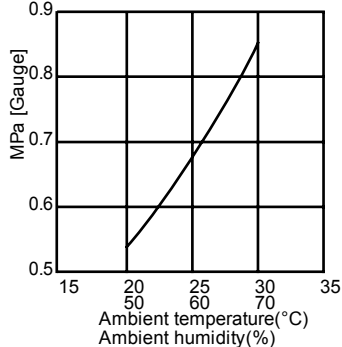
COOL operation

- ① Both indoor and outdoor unit are under the same temperature/humidity condition.
- ② Operation: TEST RUN OPERATION (Refer to 8-3.)

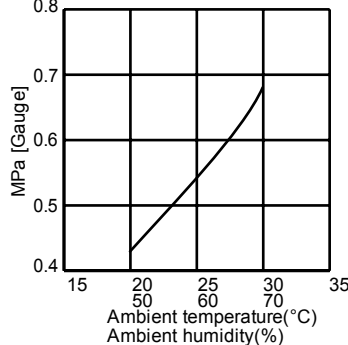
Dry-bulb temperature (°C)	Relative humidity (%)
20	50
25	60
30	70

Outdoor low pressure

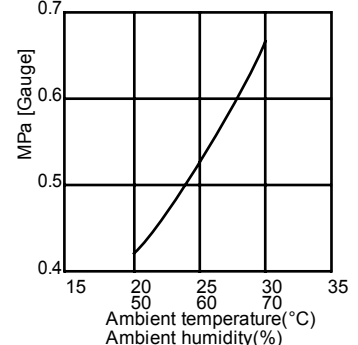
MUZ-GE25VA MUZ-GE25VAD



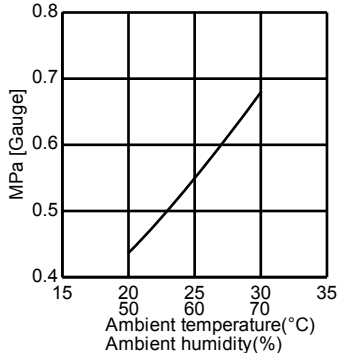
MUZ-GE33VA



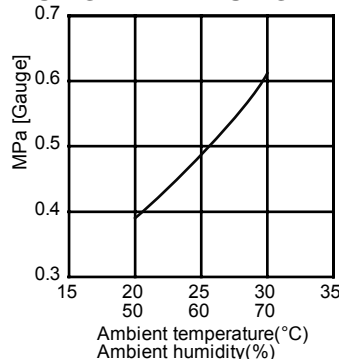
MUZ-GE35VA



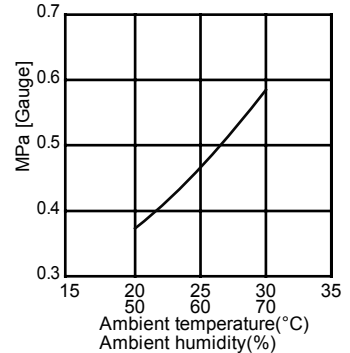
MUZ-GE35VA2 MUZ-GE35VAD



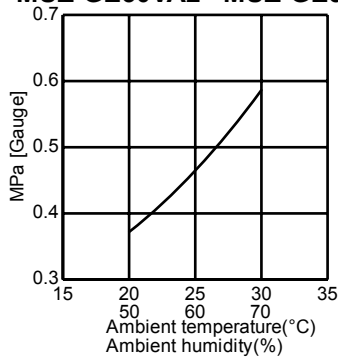
MUZ-GE42VA MUZ-GE42VAD



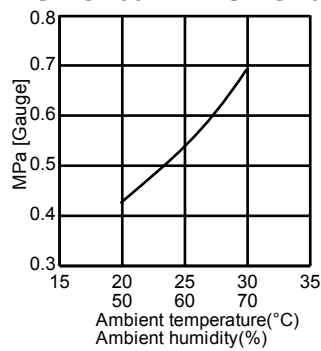
MUZ-GE50VA



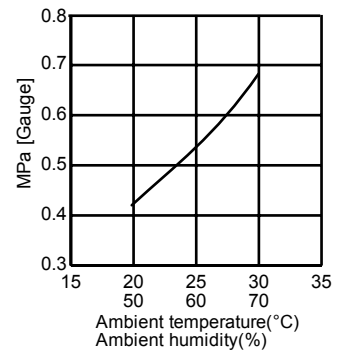
MUZ-GE50VA2 MUZ-GE50VAD



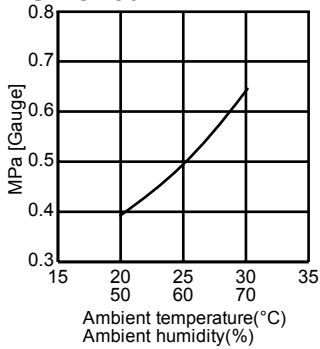
MUZ-GE60VA MUZ-GE60VAD



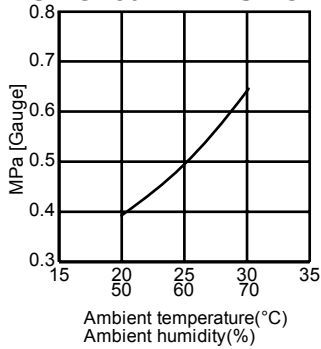
MUZ-GE71VA MUZ-GE71VAD



MUZ-GE80VA

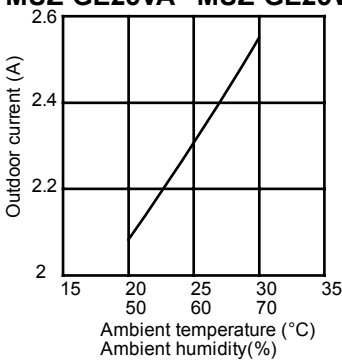


MUZ-GE80VA2 MUZ-GE80VAD

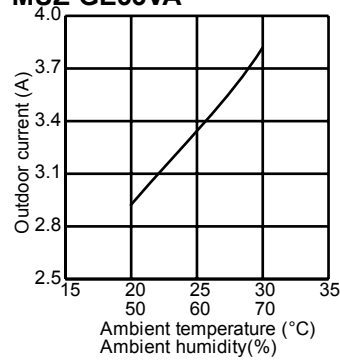


Outdoor unit current

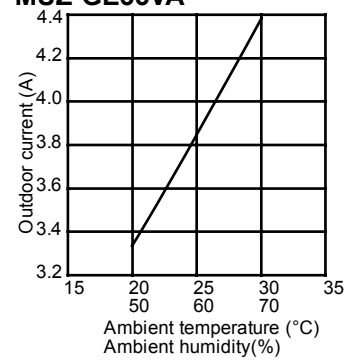
MUZ-GE25VA MUZ-GE25VAD



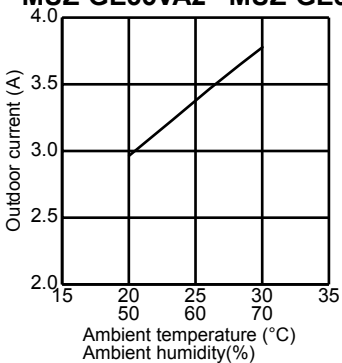
MUZ-GE33VA



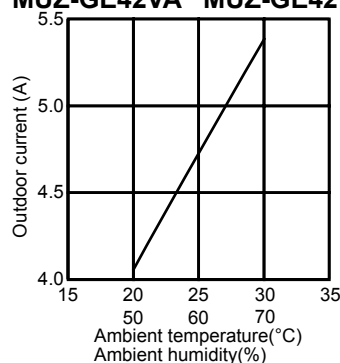
MUZ-GE35VA



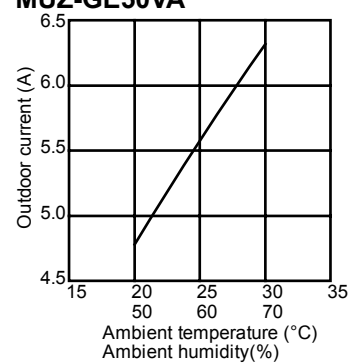
MUZ-GE35VA2 MUZ-GE35VAD



MUZ-GE42VA MUZ-GE42VAD

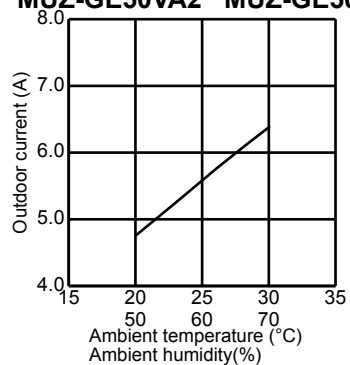


MUZ-GE50VA

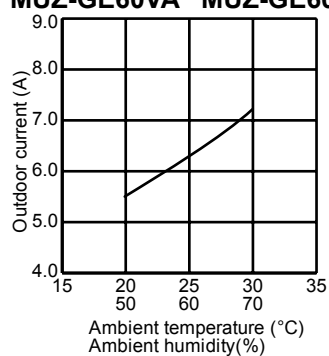


Outdoor unit current

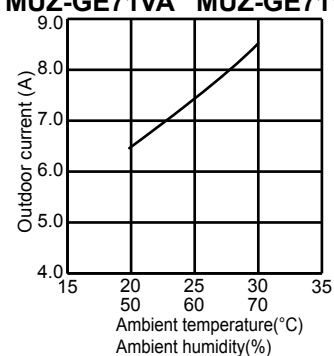
MUZ-GE50VA2 MUZ-GE50VAD



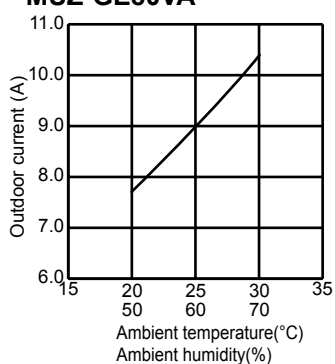
MUZ-GE60VA MUZ-GE60VAD



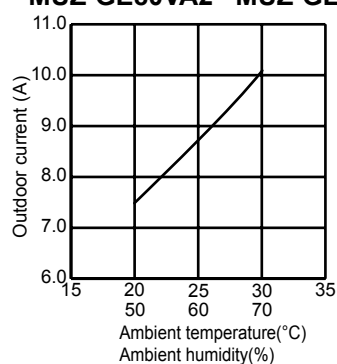
MUZ-GE71VA MUZ-GE71VAD



MUZ-GE80VA



MUZ-GE80VA2 MUZ-GE80VAD



HEAT operation

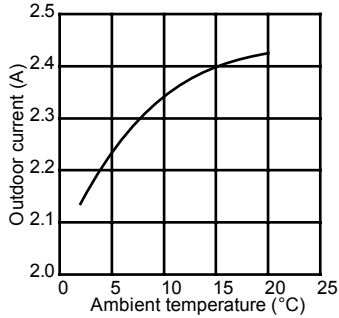
① Condition:

	Indoor	Outdoor			
Dry bulb temperature (°C)	20.0	2	7	15	20.0
Wet bulb temperature (°C)	14.5	1	6	12	14.5

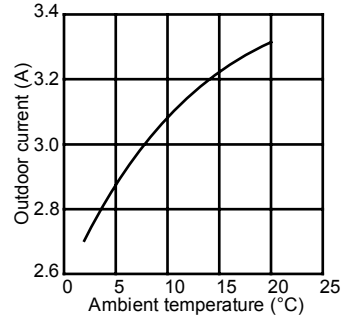
② Operation: TEST RUN OPERATION (Refer to 8-3.)

Outdoor unit current

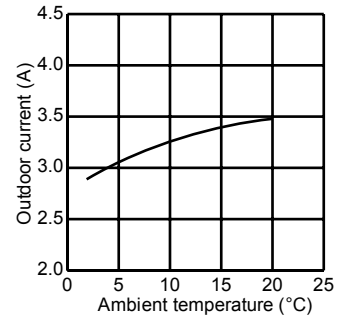
MUZ-GE25VA MUZ-GE25VAD



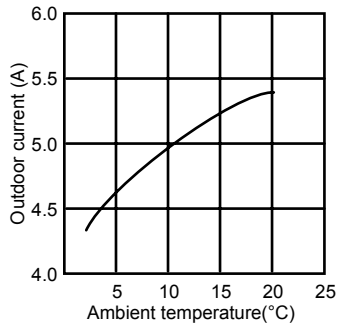
MUZ-GE33VA MUZ-GE35VA



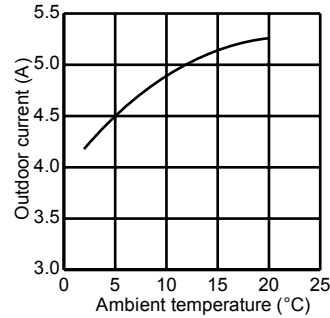
MUZ-GE35VA2 MUZ-GE35VAD



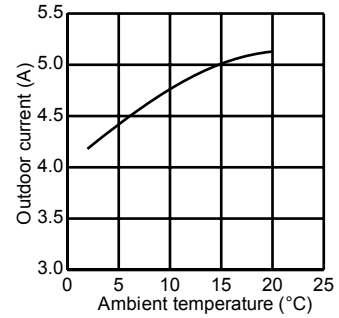
MUZ-GE42VA MUZ-GE42VAD



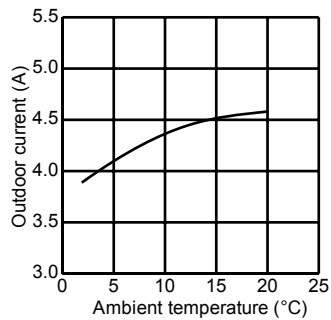
MUZ-GE50VA



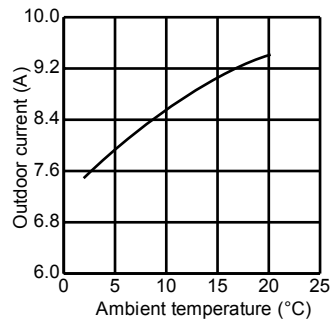
MUZ-GE50VA2 MUZ-GE50VAD



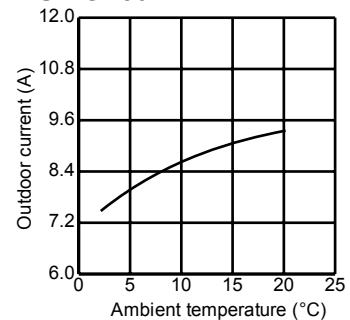
MUZ-GE60VA MUZ-GE60VAD



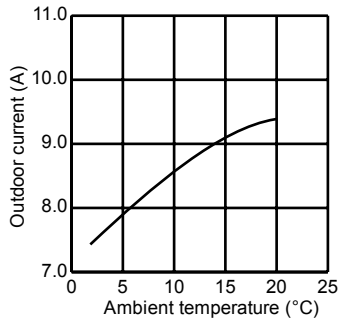
MUZ-GE71VA MUZ-GE71VAD



MUZ-GE80VA



MUZ-GE80VA2 MUZ-GE80VAD



PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE25VA MUZ-GE25VAD

CAPACITY: 2.5 kW

SHF: 0.96

INPUT: 560 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.29	0.78	448	2.81	2.19	0.78	470	2.70	2.11	0.78	493	2.60	2.03	0.78	515
21	20	3.06	2.02	0.66	470	2.94	1.94	0.66	498	2.85	1.88	0.66	510	2.75	1.82	0.66	532
22	18	2.94	2.41	0.82	448	2.81	2.31	0.82	470	2.70	2.21	0.82	493	2.60	2.13	0.82	515
22	20	3.06	2.14	0.70	470	2.94	2.06	0.70	498	2.85	2.00	0.70	510	2.75	1.93	0.70	532
22	22	3.19	1.85	0.58	487	3.08	1.78	0.58	518	3.00	1.74	0.58	532	2.88	1.67	0.58	554
23	18	2.94	2.53	0.86	448	2.81	2.42	0.86	470	2.70	2.32	0.86	493	2.60	2.24	0.86	515
23	20	3.06	2.27	0.74	470	2.94	2.17	0.74	498	2.85	2.11	0.74	510	2.75	2.04	0.74	532
23	22	3.19	1.98	0.62	487	3.08	1.91	0.62	518	3.00	1.86	0.62	532	2.88	1.78	0.62	554
24	18	2.94	2.64	0.90	448	2.81	2.53	0.90	470	2.70	2.43	0.90	493	2.60	2.34	0.90	515
24	20	3.06	2.39	0.78	470	2.94	2.29	0.78	498	2.85	2.22	0.78	510	2.75	2.15	0.78	532
24	22	3.19	2.10	0.66	487	3.08	2.03	0.66	518	3.00	1.98	0.66	532	2.88	1.90	0.66	554
24	24	3.35	1.81	0.54	510	3.23	1.74	0.54	538	3.15	1.70	0.54	554	3.05	1.65	0.54	582
25	18	2.94	2.76	0.94	448	2.81	2.64	0.94	470	2.70	2.54	0.94	493	2.60	2.44	0.94	515
25	20	3.06	2.51	0.82	470	2.94	2.41	0.82	498	2.85	2.34	0.82	510	2.75	2.26	0.82	532
25	22	3.19	2.23	0.70	487	3.08	2.15	0.70	518	3.00	2.10	0.70	532	2.88	2.01	0.70	554
25	24	3.35	1.94	0.58	510	3.23	1.87	0.58	538	3.15	1.83	0.58	554	3.05	1.77	0.58	582
26	18	2.94	2.88	0.98	448	2.81	2.76	0.98	470	2.70	2.65	0.98	493	2.60	2.55	0.98	515
26	20	3.06	2.63	0.86	470	2.94	2.53	0.86	498	2.85	2.45	0.86	510	2.75	2.37	0.86	532
26	22	3.19	2.36	0.74	487	3.08	2.28	0.74	518	3.00	2.22	0.74	532	2.88	2.13	0.74	554
26	24	3.35	2.08	0.62	510	3.23	2.00	0.62	538	3.15	1.95	0.62	554	3.05	1.89	0.62	582
26	26	3.45	1.73	0.50	538	3.35	1.68	0.50	566	3.30	1.65	0.50	582	3.20	1.60	0.50	599
27	18	2.94	2.94	1.00	448	2.81	2.81	1.00	470	2.70	2.70	1.00	493	2.60	2.60	1.00	515
27	20	3.06	2.76	0.90	470	2.94	2.64	0.90	498	2.85	2.57	0.90	510	2.75	2.48	0.90	532
27	22	3.19	2.49	0.78	487	3.08	2.40	0.78	518	3.00	2.34	0.78	532	2.88	2.24	0.78	554
27	24	3.35	2.21	0.66	510	3.23	2.13	0.66	538	3.15	2.08	0.66	554	3.05	2.01	0.66	582
27	26	3.45	1.86	0.54	538	3.35	1.81	0.54	566	3.30	1.78	0.54	582	3.20	1.73	0.54	599
28	18	2.94	2.94	1.00	448	2.81	2.81	1.00	470	2.70	2.70	1.00	493	2.60	2.60	1.00	515
28	20	3.06	2.88	0.94	470	2.94	2.76	0.94	498	2.85	2.68	0.94	510	2.75	2.59	0.94	532
28	22	3.19	2.61	0.82	487	3.08	2.52	0.82	518	3.00	2.46	0.82	532	2.88	2.36	0.82	554
28	24	3.35	2.35	0.70	510	3.23	2.26	0.70	538	3.15	2.21	0.70	554	3.05	2.14	0.70	582
28	26	3.45	2.00	0.58	538	3.35	1.94	0.58	566	3.30	1.91	0.58	582	3.20	1.86	0.58	599
29	18	2.94	2.94	1.00	448	2.81	2.81	1.00	470	2.70	2.70	1.00	493	2.60	2.60	1.00	515
29	20	3.06	3.00	0.98	470	2.94	2.88	0.98	498	2.85	2.79	0.98	510	2.75	2.70	0.98	532
29	22	3.19	2.74	0.86	487	3.08	2.64	0.86	518	3.00	2.58	0.86	532	2.88	2.47	0.86	554
29	24	3.35	2.48	0.74	510	3.23	2.39	0.74	538	3.15	2.33	0.74	554	3.05	2.26	0.74	582
29	26	3.45	2.14	0.62	538	3.35	2.08	0.62	566	3.30	2.05	0.62	582	3.20	1.98	0.62	599
30	18	2.94	2.94	1.00	448	2.81	2.81	1.00	470	2.70	2.70	1.00	493	2.60	2.60	1.00	515
30	20	3.06	3.06	1.00	470	2.94	2.94	1.00	498	2.85	2.85	1.00	510	2.75	2.75	1.00	532
30	22	3.19	2.87	0.90	487	3.08	2.77	0.90	518	3.00	2.70	0.90	532	2.88	2.59	0.90	554
30	24	3.35	2.61	0.78	510	3.23	2.52	0.78	538	3.15	2.46	0.78	554	3.05	2.38	0.78	582
30	26	3.45	2.28	0.66	538	3.35	2.21	0.66	566	3.30	2.18	0.66	582	3.20	2.11	0.66	599
31	18	2.94	2.94	1.00	448	2.81	2.81	1.00	470	2.70	2.70	1.00	493	2.60	2.60	1.00	515
31	20	3.06	3.06	1.00	470	2.94	2.94	1.00	498	2.85	2.85	1.00	510	2.75	2.75	1.00	532
31	22	3.19	3.00	0.94	487	3.08	2.89	0.94	518	3.00	2.82	0.94	532	2.88	2.70	0.94	554
31	24	3.35	2.75	0.82	510	3.23	2.64	0.82	538	3.15	2.58	0.82	554	3.05	2.50	0.82	582
31	26	3.45	2.42	0.70	538	3.35	2.35	0.70	566	3.30	2.31	0.70	582	3.20	2.24	0.70	599
32	18	2.94	2.94	1.00	448	2.81	2.81	1.00	470	2.70	2.70	1.00	493	2.60	2.60	1.00	515
32	20	3.06	3.06	1.00	470	2.94	2.94	1.00	498	2.85	2.85	1.00	510	2.75	2.75	1.00	532
32	22	3.19	3.12	0.98	487	3.08	3.01	0.98	518	3.00	2.94	0.98	532	2.88	2.82	0.98	554
32	24	3.35	2.88	0.86	510	3.23	2.77	0.86	538	3.15	2.71	0.86	554	3.05	2.62	0.86	582
32	26	3.45	2.55	0.74	538	3.35	2.48	0.74	566	3.30	2.44	0.74	582	3.20	2.37	0.74	599

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE25VA MUZ-GE25VAD

CAPACITY: 2.5 kW

SHF: 0.96

INPUT: 560 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.91	0.78	549	2.25	1.76	0.78	582	2.08	1.62	0.78	605
21	20	2.58	1.70	0.66	571	2.40	1.58	0.66	599	2.23	1.47	0.66	633
22	18	2.45	2.01	0.82	549	2.25	1.85	0.82	582	2.08	1.70	0.82	605
22	20	2.58	1.80	0.70	571	2.40	1.68	0.70	599	2.23	1.56	0.70	633
22	22	2.73	1.58	0.58	594	2.55	1.48	0.58	627	2.38	1.38	0.58	650
23	18	2.45	2.11	0.86	549	2.25	1.94	0.86	582	2.08	1.78	0.86	605
23	20	2.58	1.91	0.74	571	2.40	1.78	0.74	599	2.23	1.65	0.74	633
23	22	2.73	1.69	0.62	594	2.55	1.58	0.62	627	2.38	1.47	0.62	650
24	18	2.45	2.21	0.90	549	2.25	2.03	0.90	582	2.08	1.87	0.90	605
24	20	2.58	2.01	0.78	571	2.40	1.87	0.78	599	2.23	1.74	0.78	633
24	22	2.73	1.80	0.66	594	2.55	1.68	0.66	627	2.38	1.57	0.66	650
24	24	2.88	1.55	0.54	616	2.70	1.46	0.54	644	2.55	1.38	0.54	672
25	18	2.45	2.30	0.94	549	2.25	2.12	0.94	582	2.08	1.95	0.94	605
25	20	2.58	2.11	0.82	571	2.40	1.97	0.82	599	2.23	1.82	0.82	633
25	22	2.73	1.91	0.70	594	2.55	1.79	0.70	627	2.38	1.66	0.70	650
25	24	2.88	1.67	0.58	616	2.70	1.57	0.58	644	2.55	1.48	0.58	672
26	18	2.45	2.40	0.98	549	2.25	2.21	0.98	582	2.08	2.03	0.98	605
26	20	2.58	2.21	0.86	571	2.40	2.06	0.86	599	2.23	1.91	0.86	633
26	22	2.73	2.02	0.74	594	2.55	1.89	0.74	627	2.38	1.76	0.74	650
26	24	2.88	1.78	0.62	616	2.70	1.67	0.62	644	2.55	1.58	0.62	672
26	26	3.03	1.51	0.50	638	2.85	1.43	0.50	666	2.68	1.34	0.50	694
27	18	2.45	2.45	1.00	549	2.25	2.25	1.00	582	2.08	2.08	1.00	605
27	20	2.58	2.32	0.90	571	2.40	2.16	0.90	599	2.23	2.00	0.90	633
27	22	2.73	2.13	0.78	594	2.55	1.99	0.78	627	2.38	1.85	0.78	650
27	24	2.88	1.90	0.66	616	2.70	1.78	0.66	644	2.55	1.68	0.66	672
27	26	3.03	1.63	0.54	638	2.85	1.54	0.54	666	2.68	1.44	0.54	694
28	18	2.45	2.45	1.00	549	2.25	2.25	1.00	582	2.08	2.08	1.00	605
28	20	2.58	2.42	0.94	571	2.40	2.26	0.94	599	2.23	2.09	0.94	633
28	22	2.73	2.23	0.82	594	2.55	2.09	0.82	627	2.38	1.95	0.82	650
28	24	2.88	2.01	0.70	616	2.70	1.89	0.70	644	2.55	1.79	0.70	672
28	26	3.03	1.75	0.58	638	2.85	1.65	0.58	666	2.68	1.55	0.58	694
29	18	2.45	2.45	1.00	549	2.25	2.25	1.00	582	2.08	2.08	1.00	605
29	20	2.58	2.52	0.98	571	2.40	2.35	0.98	599	2.23	2.18	0.98	633
29	22	2.73	2.34	0.86	594	2.55	2.19	0.86	627	2.38	2.04	0.86	650
29	24	2.88	2.13	0.74	616	2.70	2.00	0.74	644	2.55	1.89	0.74	672
29	26	3.03	1.88	0.62	638	2.85	1.77	0.62	666	2.68	1.66	0.62	694
30	18	2.45	2.45	1.00	549	2.25	2.25	1.00	582	2.08	2.08	1.00	605
30	20	2.58	2.58	1.00	571	2.40	2.40	1.00	599	2.23	2.23	1.00	633
30	22	2.73	2.45	0.90	594	2.55	2.30	0.90	627	2.38	2.14	0.90	650
30	24	2.88	2.24	0.78	616	2.70	2.11	0.78	644	2.55	1.99	0.78	672
30	26	3.03	2.00	0.66	638	2.85	1.88	0.66	666	2.68	1.77	0.66	694
31	18	2.45	2.45	1.00	549	2.25	2.25	1.00	582	2.08	2.08	1.00	605
31	20	2.58	2.58	1.00	571	2.40	2.40	1.00	599	2.23	2.23	1.00	633
31	22	2.73	2.56	0.94	594	2.55	2.40	0.94	627	2.38	2.23	0.94	650
31	24	2.88	2.36	0.82	616	2.70	2.21	0.82	644	2.55	2.09	0.82	672
31	26	3.03	2.12	0.70	638	2.85	2.00	0.70	666	2.68	1.87	0.70	694
32	18	2.45	2.45	1.00	549	2.25	2.25	1.00	582	2.08	2.08	1.00	605
32	20	2.58	2.58	1.00	571	2.40	2.40	1.00	599	2.23	2.23	1.00	633
32	22	2.73	2.67	0.98	594	2.55	2.50	0.98	627	2.38	2.33	0.98	650
32	24	2.88	2.47	0.86	616	2.70	2.32	0.86	644	2.55	2.19	0.86	672
32	26	3.03	2.24	0.74	638	2.85	2.11	0.74	666	2.68	1.98	0.74	694

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE33VA

CAPACITY: 3.3 kW

SHF: 0.88

INPUT: 910 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.88	2.71	0.70	728	3.71	2.60	0.70	764	3.56	2.49	0.70	801	3.43	2.40	0.70	837
21	20	4.04	2.34	0.58	764	3.88	2.25	0.58	810	3.76	2.18	0.58	828	3.63	2.11	0.58	865
22	18	3.88	2.87	0.74	728	3.71	2.75	0.74	764	3.56	2.64	0.74	801	3.43	2.54	0.74	837
22	20	4.04	2.51	0.62	764	3.88	2.40	0.62	810	3.76	2.33	0.62	828	3.63	2.25	0.62	865
22	22	4.21	2.10	0.50	792	4.06	2.03	0.50	842	3.96	1.98	0.50	865	3.80	1.90	0.50	901
23	18	3.88	3.02	0.78	728	3.71	2.90	0.78	764	3.56	2.78	0.78	801	3.43	2.68	0.78	837
23	20	4.04	2.67	0.66	764	3.88	2.56	0.66	810	3.76	2.48	0.66	828	3.63	2.40	0.66	865
23	22	4.21	2.27	0.54	792	4.06	2.19	0.54	842	3.96	2.14	0.54	865	3.80	2.05	0.54	901
24	18	3.88	3.18	0.82	728	3.71	3.04	0.82	764	3.56	2.92	0.82	801	3.43	2.81	0.82	837
24	20	4.04	2.83	0.70	764	3.88	2.71	0.70	810	3.76	2.63	0.70	828	3.63	2.54	0.70	865
24	22	4.21	2.44	0.58	792	4.06	2.35	0.58	842	3.96	2.30	0.58	865	3.80	2.20	0.58	901
24	24	4.42	2.03	0.46	828	4.26	1.96	0.46	874	4.16	1.91	0.46	901	4.03	1.85	0.46	946
25	18	3.88	3.33	0.86	728	3.71	3.19	0.86	764	3.56	3.07	0.86	801	3.43	2.95	0.86	837
25	20	4.04	2.99	0.74	764	3.88	2.87	0.74	810	3.76	2.78	0.74	828	3.63	2.69	0.74	865
25	22	4.21	2.61	0.62	792	4.06	2.52	0.62	842	3.96	2.46	0.62	865	3.80	2.35	0.62	901
25	24	4.42	2.21	0.50	828	4.26	2.13	0.50	874	4.16	2.08	0.50	901	4.03	2.01	0.50	946
26	18	3.88	3.49	0.90	728	3.71	3.34	0.90	764	3.56	3.21	0.90	801	3.43	3.09	0.90	837
26	20	4.04	3.15	0.78	764	3.88	3.02	0.78	810	3.76	2.93	0.78	828	3.63	2.83	0.78	865
26	22	4.21	2.78	0.66	792	4.06	2.68	0.66	842	3.96	2.61	0.66	865	3.80	2.50	0.66	901
26	24	4.42	2.39	0.54	828	4.26	2.30	0.54	874	4.16	2.25	0.54	901	4.03	2.17	0.54	946
26	26	4.55	1.91	0.42	874	4.42	1.86	0.42	919	4.36	1.83	0.42	946	4.22	1.77	0.42	974
27	18	3.88	3.64	0.94	728	3.71	3.49	0.94	764	3.56	3.35	0.94	801	3.43	3.23	0.94	837
27	20	4.04	3.31	0.82	764	3.88	3.18	0.82	810	3.76	3.08	0.82	828	3.63	2.98	0.82	865
27	22	4.21	2.95	0.70	792	4.06	2.84	0.70	842	3.96	2.77	0.70	865	3.80	2.66	0.70	901
27	24	4.42	2.56	0.58	828	4.26	2.47	0.58	874	4.16	2.41	0.58	901	4.03	2.34	0.58	946
27	26	4.55	2.09	0.46	874	4.42	2.03	0.46	919	4.36	2.00	0.46	946	4.22	1.94	0.46	974
28	18	3.88	3.80	0.98	728	3.71	3.64	0.98	764	3.56	3.49	0.98	801	3.43	3.36	0.98	837
28	20	4.04	3.48	0.86	764	3.88	3.33	0.86	810	3.76	3.24	0.86	828	3.63	3.12	0.86	865
28	22	4.21	3.11	0.74	792	4.06	3.00	0.74	842	3.96	2.93	0.74	865	3.80	2.81	0.74	901
28	24	4.42	2.74	0.62	828	4.26	2.64	0.62	874	4.16	2.58	0.62	901	4.03	2.50	0.62	946
28	26	4.55	2.28	0.50	874	4.42	2.21	0.50	919	4.36	2.18	0.50	946	4.22	2.11	0.50	974
29	18	3.88	3.88	1.00	728	3.71	3.71	1.00	764	3.56	3.56	1.00	801	3.43	3.43	1.00	837
29	20	4.04	3.64	0.90	764	3.88	3.49	0.90	810	3.76	3.39	0.90	828	3.63	3.27	0.90	865
29	22	4.21	3.28	0.78	792	4.06	3.17	0.78	842	3.96	3.09	0.78	865	3.80	2.96	0.78	901
29	24	4.42	2.92	0.66	828	4.26	2.81	0.66	874	4.16	2.74	0.66	901	4.03	2.66	0.66	946
29	26	4.55	2.46	0.54	874	4.42	2.39	0.54	919	4.36	2.35	0.54	946	4.22	2.28	0.54	974
30	18	3.88	3.88	1.00	728	3.71	3.71	1.00	764	3.56	3.56	1.00	801	3.43	3.43	1.00	837
30	20	4.04	3.80	0.94	764	3.88	3.64	0.94	810	3.76	3.54	0.94	828	3.63	3.41	0.94	865
30	22	4.21	3.45	0.82	792	4.06	3.33	0.82	842	3.96	3.25	0.82	865	3.80	3.11	0.82	901
30	24	4.42	3.10	0.70	828	4.26	2.98	0.70	874	4.16	2.91	0.70	901	4.03	2.82	0.70	946
30	26	4.55	2.64	0.58	874	4.42	2.56	0.58	919	4.36	2.53	0.58	946	4.22	2.45	0.58	974
31	18	3.88	3.88	1.00	728	3.71	3.71	1.00	764	3.56	3.56	1.00	801	3.43	3.43	1.00	837
31	20	4.04	3.96	0.98	764	3.88	3.80	0.98	810	3.76	3.69	0.98	828	3.63	3.56	0.98	865
31	22	4.21	3.62	0.86	792	4.06	3.49	0.86	842	3.96	3.41	0.86	865	3.80	3.26	0.86	901
31	24	4.42	3.27	0.74	828	4.26	3.15	0.74	874	4.16	3.08	0.74	901	4.03	2.98	0.74	946
31	26	4.55	2.82	0.62	874	4.42	2.74	0.62	919	4.36	2.70	0.62	946	4.22	2.62	0.62	974
32	18	3.88	3.88	1.00	728	3.71	3.71	1.00	764	3.56	3.56	1.00	801	3.43	3.43	1.00	837
32	20	4.04	4.04	1.00	764	3.88	3.88	1.00	810	3.76	3.76	1.00	828	3.63	3.63	1.00	865
32	22	4.21	3.79	0.90	792	4.06	3.65	0.90	842	3.96	3.56	0.90	865	3.80	3.42	0.90	901
32	24	4.42	3.45	0.78	828	4.26	3.32	0.78	874	4.16	3.24	0.78	901	4.03	3.14	0.78	946
32	26	4.55	3.01	0.66	874	4.42	2.92	0.66	919	4.36	2.87	0.66	946	4.22	2.79	0.66	974

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE33VA

CAPACITY: 3.3 kW

SHF: 0.88

INPUT: 910 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.23	2.26	0.70	892	2.97	2.08	0.70	946	2.74	1.92	0.70	983
21	20	3.40	1.97	0.58	928	3.17	1.84	0.58	974	2.94	1.70	0.58	1028
22	18	3.23	2.39	0.74	892	2.97	2.20	0.74	946	2.74	2.03	0.74	983
22	20	3.40	2.11	0.62	928	3.17	1.96	0.62	974	2.94	1.82	0.62	1028
22	22	3.60	1.80	0.50	965	3.37	1.68	0.50	1019	3.14	1.57	0.50	1056
23	18	3.23	2.52	0.78	892	2.97	2.32	0.78	946	2.74	2.14	0.78	983
23	20	3.40	2.24	0.66	928	3.17	2.09	0.66	974	2.94	1.94	0.66	1028
23	22	3.60	1.94	0.54	965	3.37	1.82	0.54	1019	3.14	1.69	0.54	1056
24	18	3.23	2.65	0.82	892	2.97	2.44	0.82	946	2.74	2.25	0.82	983
24	20	3.40	2.38	0.70	928	3.17	2.22	0.70	974	2.94	2.06	0.70	1028
24	22	3.60	2.09	0.58	965	3.37	1.95	0.58	1019	3.14	1.82	0.58	1056
24	24	3.80	1.75	0.46	1001	3.56	1.64	0.46	1047	3.37	1.55	0.46	1092
25	18	3.23	2.78	0.86	892	2.97	2.55	0.86	946	2.74	2.36	0.86	983
25	20	3.40	2.52	0.74	928	3.17	2.34	0.74	974	2.94	2.17	0.74	1028
25	22	3.60	2.23	0.62	965	3.37	2.09	0.62	1019	3.14	1.94	0.62	1056
25	24	3.80	1.90	0.50	1001	3.56	1.78	0.50	1047	3.37	1.68	0.50	1092
26	18	3.23	2.91	0.90	892	2.97	2.67	0.90	946	2.74	2.47	0.90	983
26	20	3.40	2.65	0.78	928	3.17	2.47	0.78	974	2.94	2.29	0.78	1028
26	22	3.60	2.37	0.66	965	3.37	2.22	0.66	1019	3.14	2.07	0.66	1056
26	24	3.80	2.05	0.54	1001	3.56	1.92	0.54	1047	3.37	1.82	0.54	1092
26	26	3.99	1.68	0.42	1037	3.76	1.58	0.42	1083	3.53	1.48	0.42	1128
27	18	3.23	3.04	0.94	892	2.97	2.79	0.94	946	2.74	2.57	0.94	983
27	20	3.40	2.79	0.82	928	3.17	2.60	0.82	974	2.94	2.41	0.82	1028
27	22	3.60	2.52	0.70	965	3.37	2.36	0.70	1019	3.14	2.19	0.70	1056
27	24	3.80	2.20	0.58	1001	3.56	2.07	0.58	1047	3.37	1.95	0.58	1092
27	26	3.99	1.84	0.46	1037	3.76	1.73	0.46	1083	3.53	1.62	0.46	1128
28	18	3.23	3.17	0.98	892	2.97	2.91	0.98	946	2.74	2.68	0.98	983
28	20	3.40	2.92	0.86	928	3.17	2.72	0.86	974	2.94	2.53	0.86	1028
28	22	3.60	2.66	0.74	965	3.37	2.49	0.74	1019	3.14	2.32	0.74	1056
28	24	3.80	2.35	0.62	1001	3.56	2.21	0.62	1047	3.37	2.09	0.62	1092
28	26	3.99	2.00	0.50	1037	3.76	1.88	0.50	1083	3.53	1.77	0.50	1128
29	18	3.23	3.23	1.00	892	2.97	2.97	1.00	946	2.74	2.74	1.00	983
29	20	3.40	3.06	0.90	928	3.17	2.85	0.90	974	2.94	2.64	0.90	1028
29	22	3.60	2.81	0.78	965	3.37	2.63	0.78	1019	3.14	2.45	0.78	1056
29	24	3.80	2.50	0.66	1001	3.56	2.35	0.66	1047	3.37	2.22	0.66	1092
29	26	3.99	2.16	0.54	1037	3.76	2.03	0.54	1083	3.53	1.91	0.54	1128
30	18	3.23	3.23	1.00	892	2.97	2.97	1.00	946	2.74	2.74	1.00	983
30	20	3.40	3.20	0.94	928	3.17	2.98	0.94	974	2.94	2.76	0.94	1028
30	22	3.60	2.95	0.82	965	3.37	2.76	0.82	1019	3.14	2.57	0.82	1056
30	24	3.80	2.66	0.70	1001	3.56	2.49	0.70	1047	3.37	2.36	0.70	1092
30	26	3.99	2.32	0.58	1037	3.76	2.18	0.58	1083	3.53	2.05	0.58	1128
31	18	3.23	3.23	1.00	892	2.97	2.97	1.00	946	2.74	2.74	1.00	983
31	20	3.40	3.33	0.98	928	3.17	3.10	0.98	974	2.94	2.88	0.98	1028
31	22	3.60	3.09	0.86	965	3.37	2.89	0.86	1019	3.14	2.70	0.86	1056
31	24	3.80	2.81	0.74	1001	3.56	2.64	0.74	1047	3.37	2.49	0.74	1092
31	26	3.99	2.48	0.62	1037	3.76	2.33	0.62	1083	3.53	2.19	0.62	1128
32	18	3.23	3.23	1.00	892	2.97	2.97	1.00	946	2.74	2.74	1.00	983
32	20	3.40	3.40	1.00	928	3.17	3.17	1.00	974	2.94	2.94	1.00	1028
32	22	3.60	3.24	0.90	965	3.37	3.03	0.90	1019	3.14	2.82	0.90	1056
32	24	3.80	2.96	0.78	1001	3.56	2.78	0.78	1047	3.37	2.63	0.78	1092
32	26	3.99	2.64	0.66	1037	3.76	2.48	0.66	1083	3.53	2.33	0.66	1128

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE35VA

CAPACITY: 3.5 kW

SHF: 0.85

INPUT: 1010 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.76	0.67	808	3.94	2.64	0.67	848	3.78	2.53	0.67	889	3.64	2.44	0.67	929
21	20	4.29	2.36	0.55	848	4.11	2.26	0.55	899	3.99	2.19	0.55	919	3.85	2.12	0.55	960
22	18	4.11	2.92	0.71	808	3.94	2.80	0.71	848	3.78	2.68	0.71	889	3.64	2.58	0.71	929
22	20	4.29	2.53	0.59	848	4.11	2.43	0.59	899	3.99	2.35	0.59	919	3.85	2.27	0.59	960
22	22	4.46	2.10	0.47	879	4.31	2.02	0.47	934	4.20	1.97	0.47	960	4.03	1.89	0.47	1000
23	18	4.11	3.08	0.75	808	3.94	2.95	0.75	848	3.78	2.84	0.75	889	3.64	2.73	0.75	929
23	20	4.29	2.70	0.63	848	4.11	2.59	0.63	899	3.99	2.51	0.63	919	3.85	2.43	0.63	960
23	22	4.46	2.28	0.51	879	4.31	2.20	0.51	934	4.20	2.14	0.51	960	4.03	2.05	0.51	1000
24	18	4.11	3.25	0.79	808	3.94	3.11	0.79	848	3.78	2.99	0.79	889	3.64	2.88	0.79	929
24	20	4.29	2.87	0.67	848	4.11	2.76	0.67	899	3.99	2.67	0.67	919	3.85	2.58	0.67	960
24	22	4.46	2.45	0.55	879	4.31	2.37	0.55	934	4.20	2.31	0.55	960	4.03	2.21	0.55	1000
24	24	4.69	2.02	0.43	919	4.52	1.94	0.43	970	4.41	1.90	0.43	1000	4.27	1.84	0.43	1050
25	18	4.11	3.41	0.83	808	3.94	3.27	0.83	848	3.78	3.14	0.83	889	3.64	3.02	0.83	929
25	20	4.29	3.04	0.71	848	4.11	2.92	0.71	899	3.99	2.83	0.71	919	3.85	2.73	0.71	960
25	22	4.46	2.63	0.59	879	4.31	2.54	0.59	934	4.20	2.48	0.59	960	4.03	2.37	0.59	1000
25	24	4.69	2.20	0.47	919	4.52	2.12	0.47	970	4.41	2.07	0.47	1000	4.27	2.01	0.47	1050
26	18	4.11	3.58	0.87	808	3.94	3.43	0.87	848	3.78	3.29	0.87	889	3.64	3.17	0.87	929
26	20	4.29	3.22	0.75	848	4.11	3.08	0.75	899	3.99	2.99	0.75	919	3.85	2.89	0.75	960
26	22	4.46	2.81	0.63	879	4.31	2.71	0.63	934	4.20	2.65	0.63	960	4.03	2.54	0.63	1000
26	24	4.69	2.39	0.51	919	4.52	2.30	0.51	970	4.41	2.25	0.51	1000	4.27	2.18	0.51	1050
26	26	4.83	1.88	0.39	970	4.69	1.83	0.39	1020	4.62	1.80	0.39	1050	4.48	1.75	0.39	1081
27	18	4.11	3.74	0.91	808	3.94	3.58	0.91	848	3.78	3.44	0.91	889	3.64	3.31	0.91	929
27	20	4.29	3.39	0.79	848	4.11	3.25	0.79	899	3.99	3.15	0.79	919	3.85	3.04	0.79	960
27	22	4.46	2.99	0.67	879	4.31	2.88	0.67	934	4.20	2.81	0.67	960	4.03	2.70	0.67	1000
27	24	4.69	2.58	0.55	919	4.52	2.48	0.55	970	4.41	2.43	0.55	1000	4.27	2.35	0.55	1050
27	26	4.83	2.08	0.43	970	4.69	2.02	0.43	1020	4.62	1.99	0.43	1050	4.48	1.93	0.43	1081
28	18	4.11	3.91	0.95	808	3.94	3.74	0.95	848	3.78	3.59	0.95	889	3.64	3.46	0.95	929
28	20	4.29	3.56	0.83	848	4.11	3.41	0.83	899	3.99	3.31	0.83	919	3.85	3.20	0.83	960
28	22	4.46	3.17	0.71	879	4.31	3.06	0.71	934	4.20	2.98	0.71	960	4.03	2.86	0.71	1000
28	24	4.69	2.77	0.59	919	4.52	2.66	0.59	970	4.41	2.60	0.59	1000	4.27	2.52	0.59	1050
28	26	4.83	2.27	0.47	970	4.69	2.20	0.47	1020	4.62	2.17	0.47	1050	4.48	2.11	0.47	1081
29	18	4.11	4.07	0.99	808	3.94	3.90	0.99	848	3.78	3.74	0.99	889	3.64	3.60	0.99	929
29	20	4.29	3.73	0.87	848	4.11	3.58	0.87	899	3.99	3.47	0.87	919	3.85	3.35	0.87	960
29	22	4.46	3.35	0.75	879	4.31	3.23	0.75	934	4.20	3.15	0.75	960	4.03	3.02	0.75	1000
29	24	4.69	2.95	0.63	919	4.52	2.84	0.63	970	4.41	2.78	0.63	1000	4.27	2.69	0.63	1050
29	26	4.83	2.46	0.51	970	4.69	2.39	0.51	1020	4.62	2.36	0.51	1050	4.48	2.28	0.51	1081
30	18	4.11	4.11	1.00	808	3.94	3.94	1.00	848	3.78	3.78	1.00	889	3.64	3.64	1.00	929
30	20	4.29	3.90	0.91	848	4.11	3.74	0.91	899	3.99	3.63	0.91	919	3.85	3.50	0.91	960
30	22	4.46	3.53	0.79	879	4.31	3.40	0.79	934	4.20	3.32	0.79	960	4.03	3.18	0.79	1000
30	24	4.69	3.14	0.67	919	4.52	3.03	0.67	970	4.41	2.95	0.67	1000	4.27	2.86	0.67	1050
30	26	4.83	2.66	0.55	970	4.69	2.58	0.55	1020	4.62	2.54	0.55	1050	4.48	2.46	0.55	1081
31	18	4.11	4.11	1.00	808	3.94	3.94	1.00	848	3.78	3.78	1.00	889	3.64	3.64	1.00	929
31	20	4.29	4.07	0.95	848	4.11	3.91	0.95	899	3.99	3.79	0.95	919	3.85	3.66	0.95	960
31	22	4.46	3.70	0.83	879	4.31	3.57	0.83	934	4.20	3.49	0.83	960	4.03	3.34	0.83	1000
31	24	4.69	3.33	0.71	919	4.52	3.21	0.71	970	4.41	3.13	0.71	1000	4.27	3.03	0.71	1050
31	26	4.83	2.85	0.59	970	4.69	2.77	0.59	1020	4.62	2.73	0.59	1050	4.48	2.64	0.59	1081
32	18	4.11	4.11	1.00	808	3.94	3.94	1.00	848	3.78	3.78	1.00	889	3.64	3.64	1.00	929
32	20	4.29	4.24	0.99	848	4.11	4.07	0.99	899	3.99	3.95	0.99	919	3.85	3.81	0.99	960
32	22	4.46	3.88	0.87	879	4.31	3.75	0.87	934	4.20	3.65	0.87	960	4.03	3.50	0.87	1000
32	24	4.69	3.52	0.75	919	4.52	3.39	0.75	970	4.41	3.31	0.75	1000	4.27	3.20	0.75	1050
32	26	4.83	3.04	0.63	970	4.69	2.95	0.63	1020	4.62	2.91	0.63	1050	4.48	2.82	0.63	1081

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE35VA

CAPACITY: 3.5 kW

SHF: 0.85

INPUT: 1010 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	2.30	0.67	990	3.15	2.11	0.67	1050	2.91	1.95	0.67	1091
21	20	3.61	1.98	0.55	1030	3.36	1.85	0.55	1081	3.12	1.71	0.55	1141
22	18	3.43	2.44	0.71	990	3.15	2.24	0.71	1050	2.91	2.06	0.71	1091
22	20	3.61	2.13	0.59	1030	3.36	1.98	0.59	1081	3.12	1.84	0.59	1141
22	22	3.82	1.79	0.47	1071	3.57	1.68	0.47	1131	3.33	1.56	0.47	1172
23	18	3.43	2.57	0.75	990	3.15	2.36	0.75	1050	2.91	2.18	0.75	1091
23	20	3.61	2.27	0.63	1030	3.36	2.12	0.63	1081	3.12	1.96	0.63	1141
23	22	3.82	1.95	0.51	1071	3.57	1.82	0.51	1131	3.33	1.70	0.51	1172
24	18	3.43	2.71	0.79	990	3.15	2.49	0.79	1050	2.91	2.29	0.79	1091
24	20	3.61	2.42	0.67	1030	3.36	2.25	0.67	1081	3.12	2.09	0.67	1141
24	22	3.82	2.10	0.55	1071	3.57	1.96	0.55	1131	3.33	1.83	0.55	1172
24	24	4.03	1.73	0.43	1111	3.78	1.63	0.43	1162	3.57	1.54	0.43	1212
25	18	3.43	2.85	0.83	990	3.15	2.61	0.83	1050	2.91	2.41	0.83	1091
25	20	3.61	2.56	0.71	1030	3.36	2.39	0.71	1081	3.12	2.21	0.71	1141
25	22	3.82	2.25	0.59	1071	3.57	2.11	0.59	1131	3.33	1.96	0.59	1172
25	24	4.03	1.89	0.47	1111	3.78	1.78	0.47	1162	3.57	1.68	0.47	1212
26	18	3.43	2.98	0.87	990	3.15	2.74	0.87	1050	2.91	2.53	0.87	1091
26	20	3.61	2.70	0.75	1030	3.36	2.52	0.75	1081	3.12	2.34	0.75	1141
26	22	3.82	2.40	0.63	1071	3.57	2.25	0.63	1131	3.33	2.09	0.63	1172
26	24	4.03	2.05	0.51	1111	3.78	1.93	0.51	1162	3.57	1.82	0.51	1212
26	26	4.24	1.65	0.39	1151	3.99	1.56	0.39	1202	3.75	1.46	0.39	1252
27	18	3.43	3.12	0.91	990	3.15	2.87	0.91	1050	2.91	2.64	0.91	1091
27	20	3.61	2.85	0.79	1030	3.36	2.65	0.79	1081	3.12	2.46	0.79	1141
27	22	3.82	2.56	0.67	1071	3.57	2.39	0.67	1131	3.33	2.23	0.67	1172
27	24	4.03	2.21	0.55	1111	3.78	2.08	0.55	1162	3.57	1.96	0.55	1212
27	26	4.24	1.82	0.43	1151	3.99	1.72	0.43	1202	3.75	1.61	0.43	1252
28	18	3.43	3.26	0.95	990	3.15	2.99	0.95	1050	2.91	2.76	0.95	1091
28	20	3.61	2.99	0.83	1030	3.36	2.79	0.83	1081	3.12	2.59	0.83	1141
28	22	3.82	2.71	0.71	1071	3.57	2.53	0.71	1131	3.33	2.36	0.71	1172
28	24	4.03	2.37	0.59	1111	3.78	2.23	0.59	1162	3.57	2.11	0.59	1212
28	26	4.24	1.99	0.47	1151	3.99	1.88	0.47	1202	3.75	1.76	0.47	1252
29	18	3.43	3.40	0.99	990	3.15	3.12	0.99	1050	2.91	2.88	0.99	1091
29	20	3.61	3.14	0.87	1030	3.36	2.92	0.87	1081	3.12	2.71	0.87	1141
29	22	3.82	2.86	0.75	1071	3.57	2.68	0.75	1131	3.33	2.49	0.75	1172
29	24	4.03	2.54	0.63	1111	3.78	2.38	0.63	1162	3.57	2.25	0.63	1212
29	26	4.24	2.16	0.51	1151	3.99	2.03	0.51	1202	3.75	1.91	0.51	1252
30	18	3.43	3.43	1.00	990	3.15	3.15	1.00	1050	2.91	2.91	1.00	1091
30	20	3.61	3.28	0.91	1030	3.36	3.06	0.91	1081	3.12	2.83	0.91	1141
30	22	3.82	3.01	0.79	1071	3.57	2.82	0.79	1131	3.33	2.63	0.79	1172
30	24	4.03	2.70	0.67	1111	3.78	2.53	0.67	1162	3.57	2.39	0.67	1212
30	26	4.24	2.33	0.55	1151	3.99	2.19	0.55	1202	3.75	2.06	0.55	1252
31	18	3.43	3.43	1.00	990	3.15	3.15	1.00	1050	2.91	2.91	1.00	1091
31	20	3.61	3.42	0.95	1030	3.36	3.19	0.95	1081	3.12	2.96	0.95	1141
31	22	3.82	3.17	0.83	1071	3.57	2.96	0.83	1131	3.33	2.76	0.83	1172
31	24	4.03	2.86	0.71	1111	3.78	2.68	0.71	1162	3.57	2.53	0.71	1212
31	26	4.24	2.50	0.59	1151	3.99	2.35	0.59	1202	3.75	2.21	0.59	1252
32	18	3.43	3.43	1.00	990	3.15	3.15	1.00	1050	2.91	2.91	1.00	1091
32	20	3.61	3.57	0.99	1030	3.36	3.33	0.99	1081	3.12	3.08	0.99	1141
32	22	3.82	3.32	0.87	1071	3.57	3.11	0.87	1131	3.33	2.89	0.87	1172
32	24	4.03	3.02	0.75	1111	3.78	2.84	0.75	1162	3.57	2.68	0.75	1212
32	26	4.24	2.67	0.63	1151	3.99	2.51	0.63	1202	3.75	2.36	0.63	1252

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE35VA2 MUZ-GE35VAD

CAPACITY: 3.5 kW

SHF: 0.82

INPUT: 920 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.63	0.64	736	3.94	2.52	0.64	773	3.78	2.42	0.64	810	3.64	2.33	0.64	846
21	20	4.29	2.23	0.52	773	4.11	2.14	0.52	819	3.99	2.07	0.52	837	3.85	2.00	0.52	874
22	18	4.11	2.80	0.68	736	3.94	2.68	0.68	773	3.78	2.57	0.68	810	3.64	2.48	0.68	846
22	20	4.29	2.40	0.56	773	4.11	2.30	0.56	819	3.99	2.23	0.56	837	3.85	2.16	0.56	874
22	22	4.46	1.96	0.44	800	4.31	1.89	0.44	851	4.20	1.85	0.44	874	4.03	1.77	0.44	911
23	18	4.11	2.96	0.72	736	3.94	2.84	0.72	773	3.78	2.72	0.72	810	3.64	2.62	0.72	846
23	20	4.29	2.57	0.60	773	4.11	2.47	0.60	819	3.99	2.39	0.60	837	3.85	2.31	0.60	874
23	22	4.46	2.14	0.48	800	4.31	2.07	0.48	851	4.20	2.02	0.48	874	4.03	1.93	0.48	911
24	18	4.11	3.13	0.76	736	3.94	2.99	0.76	773	3.78	2.87	0.76	810	3.64	2.77	0.76	846
24	20	4.29	2.74	0.64	773	4.11	2.63	0.64	819	3.99	2.55	0.64	837	3.85	2.46	0.64	874
24	22	4.46	2.32	0.52	800	4.31	2.24	0.52	851	4.20	2.18	0.52	874	4.03	2.09	0.52	911
24	24	4.69	1.88	0.40	837	4.52	1.81	0.40	883	4.41	1.76	0.40	911	4.27	1.71	0.40	957
25	18	4.11	3.29	0.80	736	3.94	3.15	0.80	773	3.78	3.02	0.80	810	3.64	2.91	0.80	846
25	20	4.29	2.92	0.68	773	4.11	2.80	0.68	819	3.99	2.71	0.68	837	3.85	2.62	0.68	874
25	22	4.46	2.50	0.56	800	4.31	2.41	0.56	851	4.20	2.35	0.56	874	4.03	2.25	0.56	911
25	24	4.69	2.06	0.44	837	4.52	1.99	0.44	883	4.41	1.94	0.44	911	4.27	1.88	0.44	957
26	18	4.11	3.45	0.84	736	3.94	3.31	0.84	773	3.78	3.18	0.84	810	3.64	3.06	0.84	846
26	20	4.29	3.09	0.72	773	4.11	2.96	0.72	819	3.99	2.87	0.72	837	3.85	2.77	0.72	874
26	22	4.46	2.68	0.60	800	4.31	2.58	0.60	851	4.20	2.52	0.60	874	4.03	2.42	0.60	911
26	24	4.69	2.25	0.48	837	4.52	2.17	0.48	883	4.41	2.12	0.48	911	4.27	2.05	0.48	957
26	26	4.83	1.74	0.36	883	4.69	1.69	0.36	929	4.62	1.66	0.36	957	4.48	1.61	0.36	984
27	18	4.11	3.62	0.88	736	3.94	3.47	0.88	773	3.78	3.33	0.88	810	3.64	3.20	0.88	846
27	20	4.29	3.26	0.76	773	4.11	3.13	0.76	819	3.99	3.03	0.76	837	3.85	2.93	0.76	874
27	22	4.46	2.86	0.64	800	4.31	2.76	0.64	851	4.20	2.69	0.64	874	4.03	2.58	0.64	911
27	24	4.69	2.44	0.52	837	4.52	2.35	0.52	883	4.41	2.29	0.52	911	4.27	2.22	0.52	957
27	26	4.83	1.93	0.40	883	4.69	1.88	0.40	929	4.62	1.85	0.40	957	4.48	1.79	0.40	984
28	18	4.11	3.78	0.92	736	3.94	3.62	0.92	773	3.78	3.48	0.92	810	3.64	3.35	0.92	846
28	20	4.29	3.43	0.80	773	4.11	3.29	0.80	819	3.99	3.19	0.80	837	3.85	3.08	0.80	874
28	22	4.46	3.03	0.68	800	4.31	2.93	0.68	851	4.20	2.86	0.68	874	4.03	2.74	0.68	911
28	24	4.69	2.63	0.56	837	4.52	2.53	0.56	883	4.41	2.47	0.56	911	4.27	2.39	0.56	957
28	26	4.83	2.13	0.44	883	4.69	2.06	0.44	929	4.62	2.03	0.44	957	4.48	1.97	0.44	984
29	18	4.11	3.95	0.96	736	3.94	3.78	0.96	773	3.78	3.63	0.96	810	3.64	3.49	0.96	846
29	20	4.29	3.60	0.84	773	4.11	3.45	0.84	819	3.99	3.35	0.84	837	3.85	3.23	0.84	874
29	22	4.46	3.21	0.72	800	4.31	3.10	0.72	851	4.20	3.02	0.72	874	4.03	2.90	0.72	911
29	24	4.69	2.81	0.60	837	4.52	2.71	0.60	883	4.41	2.65	0.60	911	4.27	2.56	0.60	957
29	26	4.83	2.32	0.48	883	4.69	2.25	0.48	929	4.62	2.22	0.48	957	4.48	2.15	0.48	984
30	18	4.11	4.11	1.00	736	3.94	3.94	1.00	773	3.78	3.78	1.00	810	3.64	3.64	1.00	846
30	20	4.29	3.77	0.88	773	4.11	3.62	0.88	819	3.99	3.51	0.88	837	3.85	3.39	0.88	874
30	22	4.46	3.39	0.76	800	4.31	3.27	0.76	851	4.20	3.19	0.76	874	4.03	3.06	0.76	911
30	24	4.69	3.00	0.64	837	4.52	2.89	0.64	883	4.41	2.82	0.64	911	4.27	2.73	0.64	957
30	26	4.83	2.51	0.52	883	4.69	2.44	0.52	929	4.62	2.40	0.52	957	4.48	2.33	0.52	984
31	18	4.11	4.11	1.00	736	3.94	3.94	1.00	773	3.78	3.78	1.00	810	3.64	3.64	1.00	846
31	20	4.29	3.94	0.92	773	4.11	3.78	0.92	819	3.99	3.67	0.92	837	3.85	3.54	0.92	874
31	22	4.46	3.57	0.80	800	4.31	3.44	0.80	851	4.20	3.36	0.80	874	4.03	3.22	0.80	911
31	24	4.69	3.19	0.68	837	4.52	3.07	0.68	883	4.41	3.00	0.68	911	4.27	2.90	0.68	957
31	26	4.83	2.70	0.56	883	4.69	2.63	0.56	929	4.62	2.59	0.56	957	4.48	2.51	0.56	984
32	18	4.11	4.11	1.00	736	3.94	3.94	1.00	773	3.78	3.78	1.00	810	3.64	3.64	1.00	846
32	20	4.29	4.12	0.96	773	4.11	3.95	0.96	819	3.99	3.83	0.96	837	3.85	3.70	0.96	874
32	22	4.46	3.75	0.84	800	4.31	3.62	0.84	851	4.20	3.53	0.84	874	4.03	3.38	0.84	911
32	24	4.69	3.38	0.72	837	4.52	3.25	0.72	883	4.41	3.18	0.72	911	4.27	3.07	0.72	957
32	26	4.83	2.90	0.60	883	4.69	2.81	0.60	929	4.62	2.77	0.60	957	4.48	2.69	0.60	984

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE35VA2 MUZ-GE35VAD

CAPACITY: 3.5 kW

SHF: 0.82

INPUT: 920 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	2.20	0.64	902	3.15	2.02	0.64	957	2.91	1.86	0.64	994
21	20	3.61	1.87	0.52	938	3.36	1.75	0.52	984	3.12	1.62	0.52	1040
22	18	3.43	2.33	0.68	902	3.15	2.14	0.68	957	2.91	1.98	0.68	994
22	20	3.61	2.02	0.56	938	3.36	1.88	0.56	984	3.12	1.74	0.56	1040
22	22	3.82	1.68	0.44	975	3.57	1.57	0.44	1030	3.33	1.46	0.44	1067
23	18	3.43	2.47	0.72	902	3.15	2.27	0.72	957	2.91	2.09	0.72	994
23	20	3.61	2.16	0.60	938	3.36	2.02	0.60	984	3.12	1.87	0.60	1040
23	22	3.82	1.83	0.48	975	3.57	1.71	0.48	1030	3.33	1.60	0.48	1067
24	18	3.43	2.61	0.76	902	3.15	2.39	0.76	957	2.91	2.21	0.76	994
24	20	3.61	2.31	0.64	938	3.36	2.15	0.64	984	3.12	1.99	0.64	1040
24	22	3.82	1.98	0.52	975	3.57	1.86	0.52	1030	3.33	1.73	0.52	1067
24	24	4.03	1.61	0.40	1012	3.78	1.51	0.40	1058	3.57	1.43	0.40	1104
25	18	3.43	2.74	0.80	902	3.15	2.52	0.80	957	2.91	2.32	0.8	994
25	20	3.61	2.45	0.68	938	3.36	2.28	0.68	984	3.12	2.12	0.68	1040
25	22	3.82	2.14	0.56	975	3.57	2.00	0.56	1030	3.33	1.86	0.56	1067
25	24	4.03	1.77	0.44	1012	3.78	1.66	0.44	1058	3.57	1.57	0.44	1104
26	18	3.43	2.88	0.84	902	3.15	2.65	0.84	957	2.91	2.44	0.84	994
26	20	3.61	2.60	0.72	938	3.36	2.42	0.72	984	3.12	2.24	0.72	1040
26	22	3.82	2.29	0.60	975	3.57	2.14	0.60	1030	3.33	2.00	0.60	1067
26	24	4.03	1.93	0.48	1012	3.78	1.81	0.48	1058	3.57	1.71	0.48	1104
26	26	4.24	1.52	0.36	1049	3.99	1.44	0.36	1095	3.75	1.35	0.36	1141
27	18	3.43	3.02	0.88	902	3.15	2.77	0.88	957	2.91	2.56	0.88	994
27	20	3.61	2.74	0.76	938	3.36	2.55	0.76	984	3.12	2.37	0.76	1040
27	22	3.82	2.44	0.64	975	3.57	2.28	0.64	1030	3.33	2.13	0.64	1067
27	24	4.03	2.09	0.52	1012	3.78	1.97	0.52	1058	3.57	1.86	0.52	1104
27	26	4.24	1.69	0.40	1049	3.99	1.60	0.40	1095	3.75	1.50	0.40	1141
28	18	3.43	3.16	0.92	902	3.15	2.90	0.92	957	2.91	2.67	0.92	994
28	20	3.61	2.88	0.80	938	3.36	2.69	0.80	984	3.12	2.49	0.80	1040
28	22	3.82	2.59	0.68	975	3.57	2.43	0.68	1030	3.33	2.26	0.68	1067
28	24	4.03	2.25	0.56	1012	3.78	2.12	0.56	1058	3.57	2.00	0.56	1104
28	26	4.24	1.86	0.44	1049	3.99	1.76	0.44	1095	3.75	1.65	0.44	1141
29	18	3.43	3.29	0.96	902	3.15	3.02	0.96	957	2.91	2.79	0.96	994
29	20	3.61	3.03	0.84	938	3.36	2.82	0.84	984	3.12	2.62	0.84	1040
29	22	3.82	2.75	0.72	975	3.57	2.57	0.72	1030	3.33	2.39	0.72	1067
29	24	4.03	2.42	0.60	1012	3.78	2.27	0.60	1058	3.57	2.14	0.60	1104
29	26	4.24	2.03	0.48	1049	3.99	1.92	0.48	1095	3.75	1.80	0.48	1141
30	18	3.43	3.43	1.00	902	3.15	3.15	1.00	957	2.91	2.91	1.00	994
30	20	3.61	3.17	0.88	938	3.36	2.96	0.88	984	3.12	2.74	0.88	1040
30	22	3.82	2.90	0.76	975	3.57	2.71	0.76	1030	3.33	2.53	0.76	1067
30	24	4.03	2.58	0.64	1012	3.78	2.42	0.64	1058	3.57	2.28	0.64	1104
30	26	4.24	2.20	0.52	1049	3.99	2.07	0.52	1095	3.75	1.95	0.52	1141
31	18	3.43	3.43	1.00	902	3.15	3.15	1.00	957	2.91	2.91	1.00	994
31	20	3.61	3.32	0.92	938	3.36	3.09	0.92	984	3.12	2.87	0.92	1040
31	22	3.82	3.05	0.80	975	3.57	2.86	0.80	1030	3.33	2.66	0.80	1067
31	24	4.03	2.74	0.68	1012	3.78	2.57	0.68	1058	3.57	2.43	0.68	1104
31	26	4.24	2.37	0.56	1049	3.99	2.23	0.56	1095	3.75	2.10	0.56	1141
32	18	3.43	3.43	1.00	902	3.15	3.15	1.00	957	2.91	2.91	1.00	994
32	20	3.61	3.46	0.96	938	3.36	3.23	0.96	984	3.12	2.99	0.96	1040
32	22	3.82	3.20	0.84	975	3.57	3.00	0.84	1030	3.33	2.79	0.84	1067
32	24	4.03	2.90	0.72	1012	3.78	2.72	0.72	1058	3.57	2.57	0.72	1104
32	26	4.24	2.54	0.60	1049	3.99	2.39	0.60	1095	3.75	2.25	0.60	1141

NOTE Q : Total capacity (kW)

SHF : Sensible heat factor

DB : Dry-bulb temperature

SHC : Sensible heat capacity (kW)

INPUT : Total power input (W)

WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE42VA MUZ-GE42VAD

CAPACITY: 4.2 kW

SHF: 0.77

INPUT: 1260 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.94	2.91	0.59	1008	4.73	2.79	0.59	1058	4.54	2.68	0.59	1109	4.37	2.58	0.59	1159
21	20	5.15	2.42	0.47	1058	4.94	2.32	0.47	1121	4.79	2.25	0.47	1147	4.62	2.17	0.47	1197
22	18	4.94	3.11	0.63	1008	4.73	2.98	0.63	1058	4.54	2.86	0.63	1109	4.37	2.75	0.63	1159
22	20	5.15	2.62	0.51	1058	4.94	2.52	0.51	1121	4.79	2.44	0.51	1147	4.62	2.36	0.51	1197
22	22	5.36	2.09	0.39	1096	5.17	2.01	0.39	1166	5.04	1.97	0.39	1197	4.83	1.88	0.39	1247
23	18	4.94	3.31	0.67	1008	4.73	3.17	0.67	1058	4.54	3.04	0.67	1109	4.37	2.93	0.67	1159
23	20	5.15	2.83	0.55	1058	4.94	2.71	0.55	1121	4.79	2.63	0.55	1147	4.62	2.54	0.55	1197
23	22	5.36	2.30	0.43	1096	5.17	2.22	0.43	1166	5.04	2.17	0.43	1197	4.83	2.08	0.43	1247
24	18	4.94	3.50	0.71	1008	4.73	3.35	0.71	1058	4.54	3.22	0.71	1109	4.37	3.10	0.71	1159
24	20	5.15	3.04	0.59	1058	4.94	2.91	0.59	1121	4.79	2.82	0.59	1147	4.62	2.73	0.59	1197
24	22	5.36	2.52	0.47	1096	5.17	2.43	0.47	1166	5.04	2.37	0.47	1197	4.83	2.27	0.47	1247
24	24	5.63	1.97	0.35	1147	5.42	1.90	0.35	1210	5.29	1.85	0.35	1247	5.12	1.79	0.35	1310
25	18	4.94	3.70	0.75	1008	4.73	3.54	0.75	1058	4.54	3.40	0.75	1109	4.37	3.28	0.75	1159
25	20	5.15	3.24	0.63	1058	4.94	3.11	0.63	1121	4.79	3.02	0.63	1147	4.62	2.91	0.63	1197
25	22	5.36	2.73	0.51	1096	5.17	2.63	0.51	1166	5.04	2.57	0.51	1197	4.83	2.46	0.51	1247
25	24	5.63	2.19	0.39	1147	5.42	2.11	0.39	1210	5.29	2.06	0.39	1247	5.12	2.00	0.39	1310
26	18	4.94	3.90	0.79	1008	4.73	3.73	0.79	1058	4.54	3.58	0.79	1109	4.37	3.45	0.79	1159
26	20	5.15	3.45	0.67	1058	4.94	3.31	0.67	1121	4.79	3.21	0.67	1147	4.62	3.10	0.67	1197
26	22	5.36	2.95	0.55	1096	5.17	2.84	0.55	1166	5.04	2.77	0.55	1197	4.83	2.66	0.55	1247
26	24	5.63	2.42	0.43	1147	5.42	2.33	0.43	1210	5.29	2.28	0.43	1247	5.12	2.20	0.43	1310
26	26	5.80	1.80	0.31	1210	5.63	1.74	0.31	1273	5.54	1.72	0.31	1310	5.38	1.67	0.31	1348
27	18	4.94	4.10	0.83	1008	4.73	3.92	0.83	1058	4.54	3.76	0.83	1109	4.37	3.63	0.83	1159
27	20	5.15	3.65	0.71	1058	4.94	3.50	0.71	1121	4.79	3.40	0.71	1147	4.62	3.28	0.71	1197
27	22	5.36	3.16	0.59	1096	5.17	3.05	0.59	1166	5.04	2.97	0.59	1197	4.83	2.85	0.59	1247
27	24	5.63	2.65	0.47	1147	5.42	2.55	0.47	1210	5.29	2.49	0.47	1247	5.12	2.41	0.47	1310
27	26	5.80	2.03	0.35	1210	5.63	1.97	0.35	1273	5.54	1.94	0.35	1310	5.38	1.88	0.35	1348
28	18	4.94	4.29	0.87	1008	4.73	4.11	0.87	1058	4.54	3.95	0.87	1109	4.37	3.80	0.87	1159
28	20	5.15	3.86	0.75	1058	4.94	3.70	0.75	1121	4.79	3.59	0.75	1147	4.62	3.47	0.75	1197
28	22	5.36	3.37	0.63	1096	5.17	3.25	0.63	1166	5.04	3.18	0.63	1197	4.83	3.04	0.63	1247
28	24	5.63	2.87	0.51	1147	5.42	2.76	0.51	1210	5.29	2.70	0.51	1247	5.12	2.61	0.51	1310
28	26	5.80	2.26	0.39	1210	5.63	2.19	0.39	1273	5.54	2.16	0.39	1310	5.38	2.10	0.39	1348
29	18	4.94	4.49	0.91	1008	4.73	4.30	0.91	1058	4.54	4.13	0.91	1109	4.37	3.97	0.91	1159
29	20	5.15	4.06	0.79	1058	4.94	3.90	0.79	1121	4.79	3.78	0.79	1147	4.62	3.65	0.79	1197
29	22	5.36	3.59	0.67	1096	5.17	3.46	0.67	1166	5.04	3.38	0.67	1197	4.83	3.24	0.67	1247
29	24	5.63	3.10	0.55	1147	5.42	2.98	0.55	1210	5.29	2.91	0.55	1247	5.12	2.82	0.55	1310
29	26	5.80	2.49	0.43	1210	5.63	2.42	0.43	1273	5.54	2.38	0.43	1310	5.38	2.31	0.43	1348
30	18	4.94	4.69	0.95	1008	4.73	4.49	0.95	1058	4.54	4.31	0.95	1109	4.37	4.15	0.95	1159
30	20	5.15	4.27	0.83	1058	4.94	4.10	0.83	1121	4.79	3.97	0.83	1147	4.62	3.83	0.83	1197
30	22	5.36	3.80	0.71	1096	5.17	3.67	0.71	1166	5.04	3.58	0.71	1197	4.83	3.43	0.71	1247
30	24	5.63	3.32	0.59	1147	5.42	3.20	0.59	1210	5.29	3.12	0.59	1247	5.12	3.02	0.59	1310
30	26	5.80	2.72	0.47	1210	5.63	2.65	0.47	1273	5.54	2.61	0.47	1310	5.38	2.53	0.47	1348
31	18	4.94	4.89	0.99	1008	4.73	4.68	0.99	1058	4.54	4.49	0.99	1109	4.37	4.32	0.99	1159
31	20	5.15	4.48	0.87	1058	4.94	4.29	0.87	1121	4.79	4.17	0.87	1147	4.62	4.02	0.87	1197
31	22	5.36	4.02	0.75	1096	5.17	3.87	0.75	1166	5.04	3.78	0.75	1197	4.83	3.62	0.75	1247
31	24	5.63	3.55	0.63	1147	5.42	3.41	0.63	1210	5.29	3.33	0.63	1247	5.12	3.23	0.63	1310
31	26	5.80	2.96	0.51	1210	5.63	2.87	0.51	1273	5.54	2.83	0.51	1310	5.38	2.74	0.51	1348
32	18	4.94	4.94	1.00	1008	4.73	4.73	1.00	1058	4.54	4.54	1.00	1109	4.37	4.37	1.00	1159
32	20	5.15	4.68	0.91	1058	4.94	4.49	0.91	1121	4.79	4.36	0.91	1147	4.62	4.20	0.91	1197
32	22	5.36	4.23	0.79	1096	5.17	4.08	0.79	1166	5.04	3.98	0.79	1197	4.83	3.82	0.79	1247
32	24	5.63	3.77	0.67	1147	5.42	3.63	0.67	1210	5.29	3.55	0.67	1247	5.12	3.43	0.67	1310
32	26	5.80	3.19	0.55	1210	5.63	3.10	0.55	1273	5.54	3.05	0.55	1310	5.38	2.96	0.55	1348

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE42VA MUZ-GE42VAD

CAPACITY: 4.2 kW

SHF: 0.77

INPUT: 1260 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.12	2.43	0.59	1235	3.78	2.23	0.59	1310	3.49	2.06	0.59	1361
21	20	4.33	2.03	0.47	1285	4.03	1.90	0.47	1348	3.74	1.76	0.47	1424
22	18	4.12	2.59	0.63	1235	3.78	2.38	0.63	1310	3.49	2.20	0.63	1361
22	20	4.33	2.21	0.51	1285	4.03	2.06	0.51	1348	3.74	1.91	0.51	1424
22	22	4.58	1.79	0.39	1336	4.28	1.67	0.39	1411	3.99	1.56	0.39	1462
23	18	4.12	2.76	0.67	1235	3.78	2.53	0.67	1310	3.49	2.34	0.67	1361
23	20	4.33	2.38	0.55	1285	4.03	2.22	0.55	1348	3.74	2.06	0.55	1424
23	22	4.58	1.97	0.43	1336	4.28	1.84	0.43	1411	3.99	1.72	0.43	1462
24	18	4.12	2.92	0.71	1235	3.78	2.68	0.71	1310	3.49	2.48	0.71	1361
24	20	4.33	2.55	0.59	1285	4.03	2.38	0.59	1348	3.74	2.21	0.59	1424
24	22	4.58	2.15	0.47	1336	4.28	2.01	0.47	1411	3.99	1.88	0.47	1462
24	24	4.83	1.69	0.35	1386	4.54	1.59	0.35	1449	4.28	1.50	0.35	1512
25	18	4.12	3.09	0.75	1235	3.78	2.84	0.75	1310	3.49	2.61	0.75	1361
25	20	4.33	2.73	0.63	1285	4.03	2.54	0.63	1348	3.74	2.35	0.63	1424
25	22	4.58	2.33	0.51	1336	4.28	2.18	0.51	1411	3.99	2.03	0.51	1462
25	24	4.83	1.88	0.39	1386	4.54	1.77	0.39	1449	4.28	1.67	0.39	1512
26	18	4.12	3.25	0.79	1235	3.78	2.99	0.79	1310	3.49	2.75	0.79	1361
26	20	4.33	2.90	0.67	1285	4.03	2.70	0.67	1348	3.74	2.50	0.67	1424
26	22	4.58	2.52	0.55	1336	4.28	2.36	0.55	1411	3.99	2.19	0.55	1462
26	24	4.83	2.08	0.43	1386	4.54	1.95	0.43	1449	4.28	1.84	0.43	1512
26	26	5.08	1.58	0.31	1436	4.79	1.48	0.31	1499	4.49	1.39	0.31	1562
27	18	4.12	3.42	0.83	1235	3.78	3.14	0.83	1310	3.49	2.89	0.83	1361
27	20	4.33	3.07	0.71	1285	4.03	2.86	0.71	1348	3.74	2.65	0.71	1424
27	22	4.58	2.70	0.59	1336	4.28	2.53	0.59	1411	3.99	2.35	0.59	1462
27	24	4.83	2.27	0.47	1386	4.54	2.13	0.47	1449	4.28	2.01	0.47	1512
27	26	5.08	1.78	0.35	1436	4.79	1.68	0.35	1499	4.49	1.57	0.35	1562
28	18	4.12	3.58	0.87	1235	3.78	3.29	0.87	1310	3.49	3.03	0.87	1361
28	20	4.33	3.24	0.75	1285	4.03	3.02	0.75	1348	3.74	2.80	0.75	1424
28	22	4.58	2.88	0.63	1336	4.28	2.70	0.63	1411	3.99	2.51	0.63	1462
28	24	4.83	2.46	0.51	1386	4.54	2.31	0.51	1449	4.28	2.18	0.51	1512
28	26	5.08	1.98	0.39	1436	4.79	1.87	0.39	1499	4.49	1.75	0.39	1562
29	18	4.12	3.75	0.91	1235	3.78	3.44	0.91	1310	3.49	3.17	0.91	1361
29	20	4.33	3.42	0.79	1285	4.03	3.19	0.79	1348	3.74	2.95	0.79	1424
29	22	4.58	3.07	0.67	1336	4.28	2.87	0.67	1411	3.99	2.67	0.67	1462
29	24	4.83	2.66	0.55	1386	4.54	2.49	0.55	1449	4.28	2.36	0.55	1512
29	26	5.08	2.19	0.43	1436	4.79	2.06	0.43	1499	4.49	1.93	0.43	1562
30	18	4.12	3.91	0.95	1235	3.78	3.59	0.95	1310	3.49	3.31	0.95	1361
30	20	4.33	3.59	0.83	1285	4.03	3.35	0.83	1348	3.74	3.10	0.83	1424
30	22	4.58	3.25	0.71	1336	4.28	3.04	0.71	1411	3.99	2.83	0.71	1462
30	24	4.83	2.85	0.59	1386	4.54	2.68	0.59	1449	4.28	2.53	0.59	1512
30	26	5.08	2.39	0.47	1436	4.79	2.25	0.47	1499	4.49	2.11	0.47	1562
31	18	4.12	4.07	0.99	1235	3.78	3.74	0.99	1310	3.49	3.45	0.99	1361
31	20	4.33	3.76	0.87	1285	4.03	3.51	0.87	1348	3.74	3.25	0.87	1424
31	22	4.58	3.43	0.75	1336	4.28	3.21	0.75	1411	3.99	2.99	0.75	1462
31	24	4.83	3.04	0.63	1386	4.54	2.86	0.63	1449	4.28	2.70	0.63	1512
31	26	5.08	2.59	0.51	1436	4.79	2.44	0.51	1499	4.49	2.29	0.51	1562
32	18	4.12	4.12	1.00	1235	3.78	3.78	1.00	1310	3.49	3.49	1.00	1361
32	20	4.33	3.94	0.91	1285	4.03	3.67	0.91	1348	3.74	3.40	0.91	1424
32	22	4.58	3.62	0.79	1336	4.28	3.38	0.79	1411	3.99	3.15	0.79	1462
32	24	4.83	3.24	0.67	1386	4.54	3.04	0.67	1449	4.28	2.87	0.67	1512
32	26	5.08	2.80	0.55	1436	4.79	2.63	0.55	1499	4.49	2.47	0.55	1562

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE50VA

CAPACITY: 5.0 kW

SHF: 0.76

INPUT: 1640 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.41	0.58	1312	5.63	3.26	0.58	1378	5.40	3.13	0.58	1443	5.20	3.02	0.58	1509
21	20	6.13	2.82	0.46	1378	5.88	2.70	0.46	1460	5.70	2.62	0.46	1492	5.50	2.53	0.46	1558
22	18	5.88	3.64	0.62	1312	5.63	3.49	0.62	1378	5.40	3.35	0.62	1443	5.20	3.22	0.62	1509
22	20	6.13	3.06	0.50	1378	5.88	2.94	0.50	1460	5.70	2.85	0.50	1492	5.50	2.75	0.50	1558
22	22	6.38	2.42	0.38	1427	6.15	2.34	0.38	1517	6.00	2.28	0.38	1558	5.75	2.19	0.38	1624
23	18	5.88	3.88	0.66	1312	5.63	3.71	0.66	1378	5.40	3.56	0.66	1443	5.20	3.43	0.66	1509
23	20	6.13	3.31	0.54	1378	5.88	3.17	0.54	1460	5.70	3.08	0.54	1492	5.50	2.97	0.54	1558
23	22	6.38	2.68	0.42	1427	6.15	2.58	0.42	1517	6.00	2.52	0.42	1558	5.75	2.42	0.42	1624
24	18	5.88	4.11	0.70	1312	5.63	3.94	0.70	1378	5.40	3.78	0.70	1443	5.20	3.64	0.70	1509
24	20	6.13	3.55	0.58	1378	5.88	3.41	0.58	1460	5.70	3.31	0.58	1492	5.50	3.19	0.58	1558
24	22	6.38	2.93	0.46	1427	6.15	2.83	0.46	1517	6.00	2.76	0.46	1558	5.75	2.65	0.46	1624
24	24	6.70	2.28	0.34	1492	6.45	2.19	0.34	1574	6.30	2.14	0.34	1624	6.10	2.07	0.34	1706
25	18	5.88	4.35	0.74	1312	5.63	4.16	0.74	1378	5.40	4.00	0.74	1443	5.20	3.85	0.74	1509
25	20	6.13	3.80	0.62	1378	5.88	3.64	0.62	1460	5.70	3.53	0.62	1492	5.50	3.41	0.62	1558
25	22	6.38	3.19	0.50	1427	6.15	3.08	0.50	1517	6.00	3.00	0.50	1558	5.75	2.88	0.50	1624
25	24	6.70	2.55	0.38	1492	6.45	2.45	0.38	1574	6.30	2.39	0.38	1624	6.10	2.32	0.38	1706
26	18	5.88	4.58	0.78	1312	5.63	4.39	0.78	1378	5.40	4.21	0.78	1443	5.20	4.06	0.78	1509
26	20	6.13	4.04	0.66	1378	5.88	3.88	0.66	1460	5.70	3.76	0.66	1492	5.50	3.63	0.66	1558
26	22	6.38	3.44	0.54	1427	6.15	3.32	0.54	1517	6.00	3.24	0.54	1558	5.75	3.11	0.54	1624
26	24	6.70	2.81	0.42	1492	6.45	2.71	0.42	1574	6.30	2.65	0.42	1624	6.10	2.56	0.42	1706
26	26	6.90	2.07	0.30	1574	6.70	2.01	0.30	1656	6.60	1.98	0.30	1706	6.40	1.92	0.30	1755
27	18	5.88	4.82	0.82	1312	5.63	4.61	0.82	1378	5.40	4.43	0.82	1443	5.20	4.26	0.82	1509
27	20	6.13	4.29	0.70	1378	5.88	4.11	0.70	1460	5.70	3.99	0.70	1492	5.50	3.85	0.70	1558
27	22	6.38	3.70	0.58	1427	6.15	3.57	0.58	1517	6.00	3.48	0.58	1558	5.75	3.34	0.58	1624
27	24	6.70	3.08	0.46	1492	6.45	2.97	0.46	1574	6.30	2.90	0.46	1624	6.10	2.81	0.46	1706
27	26	6.90	2.35	0.34	1574	6.70	2.28	0.34	1656	6.60	2.24	0.34	1706	6.40	2.18	0.34	1755
28	18	5.88	5.05	0.86	1312	5.63	4.84	0.86	1378	5.40	4.64	0.86	1443	5.20	4.47	0.86	1509
28	20	6.13	4.53	0.74	1378	5.88	4.35	0.74	1460	5.70	4.22	0.74	1492	5.50	4.07	0.74	1558
28	22	6.38	3.95	0.62	1427	6.15	3.81	0.62	1517	6.00	3.72	0.62	1558	5.75	3.57	0.62	1624
28	24	6.70	3.35	0.50	1492	6.45	3.23	0.50	1574	6.30	3.15	0.50	1624	6.10	3.05	0.50	1706
28	26	6.90	2.62	0.38	1574	6.70	2.55	0.38	1656	6.60	2.51	0.38	1706	6.40	2.43	0.38	1755
29	18	5.88	5.29	0.90	1312	5.63	5.06	0.90	1378	5.40	4.86	0.90	1443	5.20	4.68	0.90	1509
29	20	6.13	4.78	0.78	1378	5.88	4.58	0.78	1460	5.70	4.45	0.78	1492	5.50	4.29	0.78	1558
29	22	6.38	4.21	0.66	1427	6.15	4.06	0.66	1517	6.00	3.96	0.66	1558	5.75	3.80	0.66	1624
29	24	6.70	3.62	0.54	1492	6.45	3.48	0.54	1574	6.30	3.40	0.54	1624	6.10	3.29	0.54	1706
29	26	6.90	2.90	0.42	1574	6.70	2.81	0.42	1656	6.60	2.77	0.42	1706	6.40	2.69	0.42	1755
30	18	5.88	5.52	0.94	1312	5.63	5.29	0.94	1378	5.40	5.08	0.94	1443	5.20	4.89	0.94	1509
30	20	6.13	5.02	0.82	1378	5.88	4.82	0.82	1460	5.70	4.67	0.82	1492	5.50	4.51	0.82	1558
30	22	6.38	4.46	0.70	1427	6.15	4.31	0.70	1517	6.00	4.20	0.70	1558	5.75	4.03	0.70	1624
30	24	6.70	3.89	0.58	1492	6.45	3.74	0.58	1574	6.30	3.65	0.58	1624	6.10	3.54	0.58	1706
30	26	6.90	3.17	0.46	1574	6.70	3.08	0.46	1656	6.60	3.04	0.46	1706	6.40	2.94	0.46	1755
31	18	5.88	5.76	0.98	1312	5.63	5.51	0.98	1378	5.40	5.29	0.98	1443	5.20	5.10	0.98	1509
31	20	6.13	5.27	0.86	1378	5.88	5.05	0.86	1460	5.70	4.90	0.86	1492	5.50	4.73	0.86	1558
31	22	6.38	4.72	0.74	1427	6.15	4.55	0.74	1517	6.00	4.44	0.74	1558	5.75	4.26	0.74	1624
31	24	6.70	4.15	0.62	1492	6.45	4.00	0.62	1574	6.30	3.91	0.62	1624	6.10	3.78	0.62	1706
31	26	6.90	3.45	0.50	1574	6.70	3.35	0.50	1656	6.60	3.30	0.50	1706	6.40	3.20	0.50	1755
32	18	5.88	5.88	1.00	1312	5.63	5.63	1.00	1378	5.40	5.40	1.00	1443	5.20	5.20	1.00	1509
32	20	6.13	5.51	0.90	1378	5.88	5.29	0.90	1460	5.70	5.13	0.90	1492	5.50	4.95	0.90	1558
32	22	6.38	4.97	0.78	1427	6.15	4.80	0.78	1517	6.00	4.68	0.78	1558	5.75	4.49	0.78	1624
32	24	6.70	4.42	0.66	1492	6.45	4.26	0.66	1574	6.30	4.16	0.66	1624	6.10	4.03	0.66	1706
32	26	6.90	3.73	0.54	1574	6.70	3.62	0.54	1656	6.60	3.56	0.54	1706	6.40	3.46	0.54	1755

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE50VA

CAPACITY: 5.0 kW

SHF: 0.76

INPUT: 1640 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.84	0.58	1607	4.50	2.61	0.58	1706	4.15	2.41	0.58	1771
21	20	5.15	2.37	0.46	1673	4.80	2.21	0.46	1755	4.45	2.05	0.46	1853
22	18	4.90	3.04	0.62	1607	4.50	2.79	0.62	1706	4.15	2.57	0.62	1771
22	20	5.15	2.58	0.50	1673	4.80	2.40	0.50	1755	4.45	2.23	0.50	1853
22	22	5.45	2.07	0.38	1738	5.10	1.94	0.38	1837	4.75	1.81	0.38	1902
23	18	4.90	3.23	0.66	1607	4.50	2.97	0.66	1706	4.15	2.74	0.66	1771
23	20	5.15	2.78	0.54	1673	4.80	2.59	0.54	1755	4.45	2.40	0.54	1853
23	22	5.45	2.29	0.42	1738	5.10	2.14	0.42	1837	4.75	2.00	0.42	1902
24	18	4.90	3.43	0.70	1607	4.50	3.15	0.70	1706	4.15	2.91	0.70	1771
24	20	5.15	2.99	0.58	1673	4.80	2.78	0.58	1755	4.45	2.58	0.58	1853
24	22	5.45	2.51	0.46	1738	5.10	2.35	0.46	1837	4.75	2.19	0.46	1902
24	24	5.75	1.96	0.34	1804	5.40	1.84	0.34	1886	5.10	1.73	0.34	1968
25	18	4.90	3.63	0.74	1607	4.50	3.33	0.74	1706	4.15	3.07	0.74	1771
25	20	5.15	3.19	0.62	1673	4.80	2.98	0.62	1755	4.45	2.76	0.62	1853
25	22	5.45	2.73	0.50	1738	5.10	2.55	0.50	1837	4.75	2.38	0.50	1902
25	24	5.75	2.19	0.38	1804	5.40	2.05	0.38	1886	5.10	1.94	0.38	1968
26	18	4.90	3.82	0.78	1607	4.50	3.51	0.78	1706	4.15	3.24	0.78	1771
26	20	5.15	3.40	0.66	1673	4.80	3.17	0.66	1755	4.45	2.94	0.66	1853
26	22	5.45	2.94	0.54	1738	5.10	2.75	0.54	1837	4.75	2.57	0.54	1902
26	24	5.75	2.42	0.42	1804	5.40	2.27	0.42	1886	5.10	2.14	0.42	1968
26	26	6.05	1.82	0.30	1870	5.70	1.71	0.30	1952	5.35	1.61	0.30	2034
27	18	4.90	4.02	0.82	1607	4.50	3.69	0.82	1706	4.15	3.40	0.82	1771
27	20	5.15	3.61	0.70	1673	4.80	3.36	0.70	1755	4.45	3.12	0.70	1853
27	22	5.45	3.16	0.58	1738	5.10	2.96	0.58	1837	4.75	2.76	0.58	1902
27	24	5.75	2.65	0.46	1804	5.40	2.48	0.46	1886	5.10	2.35	0.46	1968
27	26	6.05	2.06	0.34	1870	5.70	1.94	0.34	1952	5.35	1.82	0.34	2034
28	18	4.90	4.21	0.86	1607	4.50	3.87	0.86	1706	4.15	3.57	0.86	1771
28	20	5.15	3.81	0.74	1673	4.80	3.55	0.74	1755	4.45	3.29	0.74	1853
28	22	5.45	3.38	0.62	1738	5.10	3.16	0.62	1837	4.75	2.95	0.62	1902
28	24	5.75	2.88	0.50	1804	5.40	2.70	0.50	1886	5.10	2.55	0.50	1968
28	26	6.05	2.30	0.38	1870	5.70	2.17	0.38	1952	5.35	2.03	0.38	2034
29	18	4.90	4.41	0.90	1607	4.50	4.05	0.90	1706	4.15	3.74	0.90	1771
29	20	5.15	4.02	0.78	1673	4.80	3.74	0.78	1755	4.45	3.47	0.78	1853
29	22	5.45	3.60	0.66	1738	5.10	3.37	0.66	1837	4.75	3.14	0.66	1902
29	24	5.75	3.11	0.54	1804	5.40	2.92	0.54	1886	5.10	2.75	0.54	1968
29	26	6.05	2.54	0.42	1870	5.70	2.39	0.42	1952	5.35	2.25	0.42	2034
30	18	4.90	4.61	0.94	1607	4.50	4.23	0.94	1706	4.15	3.90	0.94	1771
30	20	5.15	4.22	0.82	1673	4.80	3.94	0.82	1755	4.45	3.65	0.82	1853
30	22	5.45	3.82	0.70	1738	5.10	3.57	0.70	1837	4.75	3.33	0.70	1902
30	24	5.75	3.34	0.58	1804	5.40	3.13	0.58	1886	5.10	2.96	0.58	1968
30	26	6.05	2.78	0.46	1870	5.70	2.62	0.46	1952	5.35	2.46	0.46	2034
31	18	4.90	4.80	0.98	1607	4.50	4.41	0.98	1706	4.15	4.07	0.98	1771
31	20	5.15	4.43	0.86	1673	4.80	4.13	0.86	1755	4.45	3.83	0.86	1853
31	22	5.45	4.03	0.74	1738	5.10	3.77	0.74	1837	4.75	3.52	0.74	1902
31	24	5.75	3.57	0.62	1804	5.40	3.35	0.62	1886	5.10	3.16	0.62	1968
31	26	6.05	3.03	0.50	1870	5.70	2.85	0.50	1952	5.35	2.68	0.50	2034
32	18	4.90	4.90	1.00	1607	4.50	4.50	1.00	1706	4.15	4.15	1.00	1771
32	20	5.15	4.64	0.90	1673	4.80	4.32	0.90	1755	4.45	4.01	0.90	1853
32	22	5.45	4.25	0.78	1738	5.10	3.98	0.78	1837	4.75	3.71	0.78	1902
32	24	5.75	3.80	0.66	1804	5.40	3.56	0.66	1886	5.10	3.37	0.66	1968
32	26	6.05	3.27	0.54	1870	5.70	3.08	0.54	1952	5.35	2.89	0.54	2034

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE50VA2 MUZ-GE50VAD

CAPACITY: 4.8 kW

SHF: 0.77

INPUT: 1480 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.64	3.33	0.59	1184	5.40	3.19	0.59	1243	5.18	3.06	0.59	1302	4.99	2.95	0.59	1362
21	20	5.88	2.76	0.47	1243	5.64	2.65	0.47	1317	5.47	2.57	0.47	1347	5.28	2.48	0.47	1406
22	18	5.64	3.55	0.63	1184	5.40	3.40	0.63	1243	5.18	3.27	0.63	1302	4.99	3.14	0.63	1362
22	20	5.88	3.00	0.51	1243	5.64	2.88	0.51	1317	5.47	2.79	0.51	1347	5.28	2.69	0.51	1406
22	22	6.12	2.39	0.39	1288	5.90	2.30	0.39	1369	5.76	2.25	0.39	1406	5.52	2.15	0.39	1465
23	18	5.64	3.78	0.67	1184	5.40	3.62	0.67	1243	5.18	3.47	0.67	1302	4.99	3.34	0.67	1362
23	20	5.88	3.23	0.55	1243	5.64	3.10	0.55	1317	5.47	3.01	0.55	1347	5.28	2.90	0.55	1406
23	22	6.12	2.63	0.43	1288	5.90	2.54	0.43	1369	5.76	2.48	0.43	1406	5.52	2.37	0.43	1465
24	18	5.64	4.00	0.71	1184	5.40	3.83	0.71	1243	5.18	3.68	0.71	1302	4.99	3.54	0.71	1362
24	20	5.88	3.47	0.59	1243	5.64	3.33	0.59	1317	5.47	3.23	0.59	1347	5.28	3.12	0.59	1406
24	22	6.12	2.88	0.47	1288	5.90	2.77	0.47	1369	5.76	2.71	0.47	1406	5.52	2.59	0.47	1465
24	24	6.43	2.25	0.35	1347	6.19	2.17	0.35	1421	6.05	2.12	0.35	1465	5.86	2.05	0.35	1539
25	18	5.64	4.23	0.75	1184	5.40	4.05	0.75	1243	5.18	3.89	0.75	1302	4.99	3.74	0.75	1362
25	20	5.88	3.70	0.63	1243	5.64	3.55	0.63	1317	5.47	3.45	0.63	1347	5.28	3.33	0.63	1406
25	22	6.12	3.12	0.51	1288	5.90	3.01	0.51	1369	5.76	2.94	0.51	1406	5.52	2.82	0.51	1465
25	24	6.43	2.51	0.39	1347	6.19	2.41	0.39	1421	6.05	2.36	0.39	1465	5.86	2.28	0.39	1539
26	18	5.64	4.46	0.79	1184	5.40	4.27	0.79	1243	5.18	4.10	0.79	1302	4.99	3.94	0.79	1362
26	20	5.88	3.94	0.67	1243	5.64	3.78	0.67	1317	5.47	3.67	0.67	1347	5.28	3.54	0.67	1406
26	22	6.12	3.37	0.55	1288	5.90	3.25	0.55	1369	5.76	3.17	0.55	1406	5.52	3.04	0.55	1465
26	24	6.43	2.77	0.43	1347	6.19	2.66	0.43	1421	6.05	2.60	0.43	1465	5.86	2.52	0.43	1539
26	26	6.62	2.05	0.31	1421	6.43	1.99	0.31	1495	6.34	1.96	0.31	1539	6.14	1.90	0.31	1584
27	18	5.64	4.68	0.83	1184	5.40	4.48	0.83	1243	5.18	4.30	0.83	1302	4.99	4.14	0.83	1362
27	20	5.88	4.17	0.71	1243	5.64	4.00	0.71	1317	5.47	3.89	0.71	1347	5.28	3.75	0.71	1406
27	22	6.12	3.61	0.59	1288	5.90	3.48	0.59	1369	5.76	3.40	0.59	1406	5.52	3.26	0.59	1465
27	24	6.43	3.02	0.47	1347	6.19	2.91	0.47	1421	6.05	2.84	0.47	1465	5.86	2.75	0.47	1539
27	26	6.62	2.32	0.35	1421	6.43	2.25	0.35	1495	6.34	2.22	0.35	1539	6.14	2.15	0.35	1584
28	18	5.64	4.91	0.87	1184	5.40	4.70	0.87	1243	5.18	4.51	0.87	1302	4.99	4.34	0.87	1362
28	20	5.88	4.41	0.75	1243	5.64	4.23	0.75	1317	5.47	4.10	0.75	1347	5.28	3.96	0.75	1406
28	22	6.12	3.86	0.63	1288	5.90	3.72	0.63	1369	5.76	3.63	0.63	1406	5.52	3.48	0.63	1465
28	24	6.43	3.28	0.51	1347	6.19	3.16	0.51	1421	6.05	3.08	0.51	1465	5.86	2.99	0.51	1539
28	26	6.62	2.58	0.39	1421	6.43	2.51	0.39	1495	6.34	2.47	0.39	1539	6.14	2.40	0.39	1584
29	18	5.64	5.13	0.91	1184	5.40	4.91	0.91	1243	5.18	4.72	0.91	1302	4.99	4.54	0.91	1362
29	20	5.88	4.65	0.79	1243	5.64	4.46	0.79	1317	5.47	4.32	0.79	1347	5.28	4.17	0.79	1406
29	22	6.12	4.10	0.67	1288	5.90	3.96	0.67	1369	5.76	3.86	0.67	1406	5.52	3.70	0.67	1465
29	24	6.43	3.54	0.55	1347	6.19	3.41	0.55	1421	6.05	3.33	0.55	1465	5.86	3.22	0.55	1539
29	26	6.62	2.85	0.43	1421	6.43	2.77	0.43	1495	6.34	2.72	0.43	1539	6.14	2.64	0.43	1584
30	18	5.64	5.36	0.95	1184	5.40	5.13	0.95	1243	5.18	4.92	0.95	1302	4.99	4.74	0.95	1362
30	20	5.88	4.88	0.83	1243	5.64	4.68	0.83	1317	5.47	4.54	0.83	1347	5.28	4.38	0.83	1406
30	22	6.12	4.35	0.71	1288	5.90	4.19	0.71	1369	5.76	4.09	0.71	1406	5.52	3.92	0.71	1465
30	24	6.43	3.79	0.59	1347	6.19	3.65	0.59	1421	6.05	3.57	0.59	1465	5.86	3.46	0.59	1539
30	26	6.62	3.11	0.47	1421	6.43	3.02	0.47	1495	6.34	2.98	0.47	1539	6.14	2.89	0.47	1584
31	18	5.64	5.58	0.99	1184	5.40	5.35	0.99	1243	5.18	5.13	0.99	1302	4.99	4.94	0.99	1362
31	20	5.88	5.12	0.87	1243	5.64	4.91	0.87	1317	5.47	4.76	0.87	1347	5.28	4.59	0.87	1406
31	22	6.12	4.59	0.75	1288	5.90	4.43	0.75	1369	5.76	4.32	0.75	1406	5.52	4.14	0.75	1465
31	24	6.43	4.05	0.63	1347	6.19	3.90	0.63	1421	6.05	3.81	0.63	1465	5.86	3.69	0.63	1539
31	26	6.62	3.38	0.51	1421	6.43	3.28	0.51	1495	6.34	3.23	0.51	1539	6.14	3.13	0.51	1584
32	18	5.64	5.64	1.00	1184	5.40	5.40	1.00	1243	5.18	5.18	1.00	1302	4.99	4.99	1.00	1362
32	20	5.88	5.35	0.91	1243	5.64	5.13	0.91	1317	5.47	4.98	0.91	1347	5.28	4.80	0.91	1406
32	22	6.12	4.83	0.79	1288	5.90	4.66	0.79	1369	5.76	4.55	0.79	1406	5.52	4.36	0.79	1465
32	24	6.43	4.31	0.67	1347	6.19	4.15	0.67	1421	6.05	4.05	0.67	1465	5.86	3.92	0.67	1539
32	26	6.62	3.64	0.55	1421	6.43	3.54	0.55	1495	6.34	3.48	0.55	1539	6.14	3.38	0.55	1584

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE50VA2 MUZ-GE50VAD

CAPACITY: 4.8 kW

SHF: 0.77

INPUT: 1480 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.70	2.78	0.59	1450	4.32	2.55	0.59	1539	3.98	2.35	0.59	1598
21	20	4.94	2.32	0.47	1510	4.61	2.17	0.47	1584	4.27	2.01	0.47	1672
22	18	4.70	2.96	0.63	1450	4.32	2.72	0.63	1539	3.98	2.51	0.63	1598
22	20	4.94	2.52	0.51	1510	4.61	2.35	0.51	1584	4.27	2.18	0.51	1672
22	22	5.23	2.04	0.39	1569	4.90	1.91	0.39	1658	4.56	1.78	0.39	1717
23	18	4.70	3.15	0.67	1450	4.32	2.89	0.67	1539	3.98	2.67	0.67	1598
23	20	4.94	2.72	0.55	1510	4.61	2.53	0.55	1584	4.27	2.35	0.55	1672
23	22	5.23	2.25	0.43	1569	4.90	2.11	0.43	1658	4.56	1.96	0.43	1717
24	18	4.70	3.34	0.71	1450	4.32	3.07	0.71	1539	3.98	2.83	0.71	1598
24	20	4.94	2.92	0.59	1510	4.61	2.72	0.59	1584	4.27	2.52	0.59	1672
24	22	5.23	2.46	0.47	1569	4.90	2.30	0.47	1658	4.56	2.14	0.47	1717
24	24	5.52	1.93	0.35	1628	5.18	1.81	0.35	1702	4.90	1.71	0.35	1776
25	18	4.70	3.53	0.75	1450	4.32	3.24	0.75	1539	3.98	2.99	0.75	1598
25	20	4.94	3.11	0.63	1510	4.61	2.90	0.63	1584	4.27	2.69	0.63	1672
25	22	5.23	2.67	0.51	1569	4.90	2.50	0.51	1658	4.56	2.33	0.51	1717
25	24	5.52	2.15	0.39	1628	5.18	2.02	0.39	1702	4.90	1.91	0.39	1776
26	18	4.70	3.72	0.79	1450	4.32	3.41	0.79	1539	3.98	3.15	0.79	1598
26	20	4.94	3.31	0.67	1510	4.61	3.09	0.67	1584	4.27	2.86	0.67	1672
26	22	5.23	2.88	0.55	1569	4.90	2.69	0.55	1658	4.56	2.51	0.55	1717
26	24	5.52	2.37	0.43	1628	5.18	2.23	0.43	1702	4.90	2.11	0.43	1776
26	26	5.81	1.80	0.31	1687	5.47	1.70	0.31	1761	5.14	1.59	0.31	1835
27	18	4.70	3.90	0.83	1450	4.32	3.59	0.83	1539	3.98	3.31	0.83	1598
27	20	4.94	3.51	0.71	1510	4.61	3.27	0.71	1584	4.27	3.03	0.71	1672
27	22	5.23	3.09	0.59	1569	4.90	2.89	0.59	1658	4.56	2.69	0.59	1717
27	24	5.52	2.59	0.47	1628	5.18	2.44	0.47	1702	4.90	2.30	0.47	1776
27	26	5.81	2.03	0.35	1687	5.47	1.92	0.35	1761	5.14	1.80	0.35	1835
28	18	4.70	4.09	0.87	1450	4.32	3.76	0.87	1539	3.98	3.47	0.87	1598
28	20	4.94	3.71	0.75	1510	4.61	3.46	0.75	1584	4.27	3.20	0.75	1672
28	22	5.23	3.30	0.63	1569	4.90	3.08	0.63	1658	4.56	2.87	0.63	1717
28	24	5.52	2.82	0.51	1628	5.18	2.64	0.51	1702	4.90	2.50	0.51	1776
28	26	5.81	2.27	0.39	1687	5.47	2.13	0.39	1761	5.14	2.00	0.39	1835
29	18	4.70	4.28	0.91	1450	4.32	3.93	0.91	1539	3.98	3.63	0.91	1598
29	20	4.94	3.91	0.79	1510	4.61	3.64	0.79	1584	4.27	3.37	0.79	1672
29	22	5.23	3.51	0.67	1569	4.90	3.28	0.67	1658	4.56	3.06	0.67	1717
29	24	5.52	3.04	0.55	1628	5.18	2.85	0.55	1702	4.90	2.69	0.55	1776
29	26	5.81	2.50	0.43	1687	5.47	2.35	0.43	1761	5.14	2.21	0.43	1835
30	18	4.70	4.47	0.95	1450	4.32	4.10	0.95	1539	3.98	3.78	0.95	1598
30	20	4.94	4.10	0.83	1510	4.61	3.82	0.83	1584	4.27	3.55	0.83	1672
30	22	5.23	3.71	0.71	1569	4.90	3.48	0.71	1658	4.56	3.24	0.71	1717
30	24	5.52	3.26	0.59	1628	5.18	3.06	0.59	1702	4.90	2.89	0.59	1776
30	26	5.81	2.73	0.47	1687	5.47	2.57	0.47	1761	5.14	2.41	0.47	1835
31	18	4.70	4.66	0.99	1450	4.32	4.28	0.99	1539	3.98	3.94	0.99	1598
31	20	4.94	4.30	0.87	1510	4.61	4.01	0.87	1584	4.27	3.72	0.87	1672
31	22	5.23	3.92	0.75	1569	4.90	3.67	0.75	1658	4.56	3.42	0.75	1717
31	24	5.52	3.48	0.63	1628	5.18	3.27	0.63	1702	4.90	3.08	0.63	1776
31	26	5.81	2.96	0.51	1687	5.47	2.79	0.51	1761	5.14	2.62	0.51	1835
32	18	4.70	4.70	1.00	1450	4.32	4.32	1.00	1539	3.98	3.98	1.00	1598
32	20	4.94	4.50	0.91	1510	4.61	4.19	0.91	1584	4.27	3.89	0.91	1672
32	22	5.23	4.13	0.79	1569	4.90	3.87	0.79	1658	4.56	3.60	0.79	1717
32	24	5.52	3.70	0.67	1628	5.18	3.47	0.67	1702	4.90	3.28	0.67	1776
32	26	5.81	3.19	0.55	1687	5.47	3.01	0.55	1761	5.14	2.82	0.55	1835

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE60VA MUZ-GE60VAD

CAPACITY: 6.0 kW

SHF: 0.78

INPUT: 1760 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	7.05	4.23	0.60	1408	6.75	4.05	0.60	1478	6.48	3.89	0.60	1549	6.24	3.74	0.60	1619
21	20	7.35	3.53	0.48	1478	7.05	3.38	0.48	1566	6.84	3.28	0.48	1602	6.60	3.17	0.48	1672
22	18	7.05	4.51	0.64	1408	6.75	4.32	0.64	1478	6.48	4.15	0.64	1549	6.24	3.99	0.64	1619
22	20	7.35	3.82	0.52	1478	7.05	3.67	0.52	1566	6.84	3.56	0.52	1602	6.60	3.43	0.52	1672
22	22	7.65	3.06	0.40	1531	7.38	2.95	0.40	1628	7.20	2.88	0.40	1672	6.90	2.76	0.40	1742
23	18	7.05	4.79	0.68	1408	6.75	4.59	0.68	1478	6.48	4.41	0.68	1549	6.24	4.24	0.68	1619
23	20	7.35	4.12	0.56	1478	7.05	3.95	0.56	1566	6.84	3.83	0.56	1602	6.60	3.70	0.56	1672
23	22	7.65	3.37	0.44	1531	7.38	3.25	0.44	1628	7.20	3.17	0.44	1672	6.90	3.04	0.44	1742
24	18	7.05	5.08	0.72	1408	6.75	4.86	0.72	1478	6.48	4.67	0.72	1549	6.24	4.49	0.72	1619
24	20	7.35	4.41	0.60	1478	7.05	4.23	0.60	1566	6.84	4.10	0.60	1602	6.60	3.96	0.60	1672
24	22	7.65	3.67	0.48	1531	7.38	3.54	0.48	1628	7.20	3.46	0.48	1672	6.90	3.31	0.48	1742
24	24	8.04	2.89	0.36	1602	7.74	2.79	0.36	1690	7.56	2.72	0.36	1742	7.32	2.64	0.36	1830
25	18	7.05	5.36	0.76	1408	6.75	5.13	0.76	1478	6.48	4.92	0.76	1549	6.24	4.74	0.76	1619
25	20	7.35	4.70	0.64	1478	7.05	4.51	0.64	1566	6.84	4.38	0.64	1602	6.60	4.22	0.64	1672
25	22	7.65	3.98	0.52	1531	7.38	3.84	0.52	1628	7.20	3.74	0.52	1672	6.90	3.59	0.52	1742
25	24	8.04	3.22	0.40	1602	7.74	3.10	0.40	1690	7.56	3.02	0.40	1742	7.32	2.93	0.40	1830
26	18	7.05	5.64	0.80	1408	6.75	5.40	0.80	1478	6.48	5.18	0.80	1549	6.24	4.99	0.80	1619
26	20	7.35	5.00	0.68	1478	7.05	4.79	0.68	1566	6.84	4.65	0.68	1602	6.60	4.49	0.68	1672
26	22	7.65	4.28	0.56	1531	7.38	4.13	0.56	1628	7.20	4.03	0.56	1672	6.90	3.86	0.56	1742
26	24	8.04	3.54	0.44	1602	7.74	3.41	0.44	1690	7.56	3.33	0.44	1742	7.32	3.22	0.44	1830
26	26	8.28	2.65	0.32	1690	8.04	2.57	0.32	1778	7.92	2.53	0.32	1830	7.68	2.46	0.32	1883
27	18	7.05	5.92	0.84	1408	6.75	5.67	0.84	1478	6.48	5.44	0.84	1549	6.24	5.24	0.84	1619
27	20	7.35	5.29	0.72	1478	7.05	5.08	0.72	1566	6.84	4.92	0.72	1602	6.60	4.75	0.72	1672
27	22	7.65	4.59	0.60	1531	7.38	4.43	0.60	1628	7.20	4.32	0.60	1672	6.90	4.14	0.60	1742
27	24	8.04	3.86	0.48	1602	7.74	3.72	0.48	1690	7.56	3.63	0.48	1742	7.32	3.51	0.48	1830
27	26	8.28	2.98	0.36	1690	8.04	2.89	0.36	1778	7.92	2.85	0.36	1830	7.68	2.76	0.36	1883
28	18	7.05	6.20	0.88	1408	6.75	5.94	0.88	1478	6.48	5.70	0.88	1549	6.24	5.49	0.88	1619
28	20	7.35	5.59	0.76	1478	7.05	5.36	0.76	1566	6.84	5.20	0.76	1602	6.60	5.02	0.76	1672
28	22	7.65	4.90	0.64	1531	7.38	4.72	0.64	1628	7.20	4.61	0.64	1672	6.90	4.42	0.64	1742
28	24	8.04	4.18	0.52	1602	7.74	4.02	0.52	1690	7.56	3.93	0.52	1742	7.32	3.81	0.52	1830
28	26	8.28	3.31	0.40	1690	8.04	3.22	0.40	1778	7.92	3.17	0.40	1830	7.68	3.07	0.40	1883
29	18	7.05	6.49	0.92	1408	6.75	6.21	0.92	1478	6.48	5.96	0.92	1549	6.24	5.74	0.92	1619
29	20	7.35	5.88	0.80	1478	7.05	5.64	0.80	1566	6.84	5.47	0.80	1602	6.60	5.28	0.80	1672
29	22	7.65	5.20	0.68	1531	7.38	5.02	0.68	1628	7.20	4.90	0.68	1672	6.90	4.69	0.68	1742
29	24	8.04	4.50	0.56	1602	7.74	4.33	0.56	1690	7.56	4.23	0.56	1742	7.32	4.10	0.56	1830
29	26	8.28	3.64	0.44	1690	8.04	3.54	0.44	1778	7.92	3.48	0.44	1830	7.68	3.38	0.44	1883
30	18	7.05	6.77	0.96	1408	6.75	6.48	0.96	1478	6.48	6.22	0.96	1549	6.24	5.99	0.96	1619
30	20	7.35	6.17	0.84	1478	7.05	5.92	0.84	1566	6.84	5.75	0.84	1602	6.60	5.54	0.84	1672
30	22	7.65	5.51	0.72	1531	7.38	5.31	0.72	1628	7.20	5.18	0.72	1672	6.90	4.97	0.72	1742
30	24	8.04	4.82	0.60	1602	7.74	4.64	0.60	1690	7.56	4.54	0.60	1742	7.32	4.39	0.60	1830
30	26	8.28	3.97	0.48	1690	8.04	3.86	0.48	1778	7.92	3.80	0.48	1830	7.68	3.69	0.48	1883
31	18	7.05	7.05	1.00	1408	6.75	6.75	1.00	1478	6.48	6.48	1.00	1549	6.24	6.24	1.00	1619
31	20	7.35	6.47	0.88	1478	7.05	6.20	0.88	1566	6.84	6.02	0.88	1602	6.60	5.81	0.88	1672
31	22	7.65	5.81	0.76	1531	7.38	5.61	0.76	1628	7.20	5.47	0.76	1672	6.90	5.24	0.76	1742
31	24	8.04	5.15	0.64	1602	7.74	4.95	0.64	1690	7.56	4.84	0.64	1742	7.32	4.68	0.64	1830
31	26	8.28	4.31	0.52	1690	8.04	4.18	0.52	1778	7.92	4.12	0.52	1830	7.68	3.99	0.52	1883
32	18	7.05	7.05	1.00	1408	6.75	6.75	1.00	1478	6.48	6.48	1.00	1549	6.24	6.24	1.00	1619
32	20	7.35	6.76	0.92	1478	7.05	6.49	0.92	1566	6.84	6.29	0.92	1602	6.60	6.07	0.92	1672
32	22	7.65	6.12	0.80	1531	7.38	5.90	0.80	1628	7.20	5.76	0.80	1672	6.90	5.52	0.80	1742
32	24	8.04	5.47	0.68	1602	7.74	5.26	0.68	1690	7.56	5.14	0.68	1742	7.32	4.98	0.68	1830
32	26	8.28	4.64	0.56	1690	8.04	4.50	0.56	1778	7.92	4.44	0.56	1830	7.68	4.30	0.56	1883

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE60VA MUZ-GE60VAD

CAPACITY: 6.0 kW

SHF: 0.78

INPUT: 1760 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.53	0.60	1725	5.40	3.24	0.60	1830	4.98	2.99	0.60	1901
21	20	6.18	2.97	0.48	1795	5.76	2.76	0.48	1883	5.34	2.56	0.48	1989
22	18	5.88	3.76	0.64	1725	5.40	3.46	0.64	1830	4.98	3.19	0.64	1901
22	20	6.18	3.21	0.52	1795	5.76	3.00	0.52	1883	5.34	2.78	0.52	1989
22	22	6.54	2.62	0.40	1866	6.12	2.45	0.40	1971	5.70	2.28	0.40	2042
23	18	5.88	4.00	0.68	1725	5.40	3.67	0.68	1830	4.98	3.39	0.68	1901
23	20	6.18	3.46	0.56	1795	5.76	3.23	0.56	1883	5.34	2.99	0.56	1989
23	22	6.54	2.88	0.44	1866	6.12	2.69	0.44	1971	5.70	2.51	0.44	2042
24	18	5.88	4.23	0.72	1725	5.40	3.89	0.72	1830	4.98	3.59	0.72	1901
24	20	6.18	3.71	0.60	1795	5.76	3.46	0.60	1883	5.34	3.20	0.60	1989
24	22	6.54	3.14	0.48	1866	6.12	2.94	0.48	1971	5.70	2.74	0.48	2042
24	24	6.90	2.48	0.36	1936	6.48	2.33	0.36	2024	6.12	2.20	0.36	2112
25	18	5.88	4.47	0.76	1725	5.40	4.10	0.76	1830	4.98	3.78	0.76	1901
25	20	6.18	3.96	0.64	1795	5.76	3.69	0.64	1883	5.34	3.42	0.64	1989
25	22	6.54	3.40	0.52	1866	6.12	3.18	0.52	1971	5.70	2.96	0.52	2042
25	24	6.90	2.76	0.40	1936	6.48	2.59	0.40	2024	6.12	2.45	0.40	2112
26	18	5.88	4.70	0.80	1725	5.40	4.32	0.80	1830	4.98	3.98	0.80	1901
26	20	6.18	4.20	0.68	1795	5.76	3.92	0.68	1883	5.34	3.63	0.68	1989
26	22	6.54	3.66	0.56	1866	6.12	3.43	0.56	1971	5.70	3.19	0.56	2042
26	24	6.90	3.04	0.44	1936	6.48	2.85	0.44	2024	6.12	2.69	0.44	2112
26	26	7.26	2.32	0.32	2006	6.84	2.19	0.32	2094	6.42	2.05	0.32	2182
27	18	5.88	4.94	0.84	1725	5.40	4.54	0.84	1830	4.98	4.18	0.84	1901
27	20	6.18	4.45	0.72	1795	5.76	4.15	0.72	1883	5.34	3.84	0.72	1989
27	22	6.54	3.92	0.60	1866	6.12	3.67	0.60	1971	5.70	3.42	0.60	2042
27	24	6.90	3.31	0.48	1936	6.48	3.11	0.48	2024	6.12	2.94	0.48	2112
27	26	7.26	2.61	0.36	2006	6.84	2.46	0.36	2094	6.42	2.31	0.36	2182
28	18	5.88	5.17	0.88	1725	5.40	4.75	0.88	1830	4.98	4.38	0.88	1901
28	20	6.18	4.70	0.76	1795	5.76	4.38	0.76	1883	5.34	4.06	0.76	1989
28	22	6.54	4.19	0.64	1866	6.12	3.92	0.64	1971	5.70	3.65	0.64	2042
28	24	6.90	3.59	0.52	1936	6.48	3.37	0.52	2024	6.12	3.18	0.52	2112
28	26	7.26	2.90	0.40	2006	6.84	2.74	0.40	2094	6.42	2.57	0.40	2182
29	18	5.88	5.41	0.92	1725	5.40	4.97	0.92	1830	4.98	4.58	0.92	1901
29	20	6.18	4.94	0.80	1795	5.76	4.61	0.80	1883	5.34	4.27	0.80	1989
29	22	6.54	4.45	0.68	1866	6.12	4.16	0.68	1971	5.70	3.88	0.68	2042
29	24	6.90	3.86	0.56	1936	6.48	3.63	0.56	2024	6.12	3.43	0.56	2112
29	26	7.26	3.19	0.44	2006	6.84	3.01	0.44	2094	6.42	2.82	0.44	2182
30	18	5.88	5.64	0.96	1725	5.40	5.18	0.96	1830	4.98	4.78	0.96	1901
30	20	6.18	5.19	0.84	1795	5.76	4.84	0.84	1883	5.34	4.49	0.84	1989
30	22	6.54	4.71	0.72	1866	6.12	4.41	0.72	1971	5.70	4.10	0.72	2042
30	24	6.90	4.14	0.60	1936	6.48	3.89	0.60	2024	6.12	3.67	0.60	2112
30	26	7.26	3.48	0.48	2006	6.84	3.28	0.48	2094	6.42	3.08	0.48	2182
31	18	5.88	5.88	1.00	1725	5.40	5.40	1.00	1830	4.98	4.98	1.00	1901
31	20	6.18	5.44	0.88	1795	5.76	5.07	0.88	1883	5.34	4.70	0.88	1989
31	22	6.54	4.97	0.76	1866	6.12	4.65	0.76	1971	5.70	4.33	0.76	2042
31	24	6.90	4.42	0.64	1936	6.48	4.15	0.64	2024	6.12	3.92	0.64	2112
31	26	7.26	3.78	0.52	2006	6.84	3.56	0.52	2094	6.42	3.34	0.52	2182
32	18	5.88	5.88	1.00	1725	5.40	5.40	1.00	1830	4.98	4.98	1.00	1901
32	20	6.18	5.69	0.92	1795	5.76	5.30	0.92	1883	5.34	4.91	0.92	1989
32	22	6.54	5.23	0.80	1866	6.12	4.90	0.80	1971	5.70	4.56	0.80	2042
32	24	6.90	4.69	0.68	1936	6.48	4.41	0.68	2024	6.12	4.16	0.68	2112
32	26	7.26	4.07	0.56	2006	6.84	3.83	0.56	2094	6.42	3.60	0.56	2182

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE71VA MUZ-GE71VAD

CAPACITY: 7.1 kW

SHF: 0.79

INPUT: 2130 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	8.34	5.09	0.61	1704	7.99	4.87	0.61	1789	7.67	4.68	0.61	1874	7.38	4.50	0.61	1960
21	20	8.70	4.26	0.49	1789	8.34	4.09	0.49	1896	8.09	3.97	0.49	1938	7.81	3.83	0.49	2024
22	18	8.34	5.42	0.65	1704	7.99	5.19	0.65	1789	7.67	4.98	0.65	1874	7.38	4.80	0.65	1960
22	20	8.70	4.61	0.53	1789	8.34	4.42	0.53	1896	8.09	4.29	0.53	1938	7.81	4.14	0.53	2024
22	22	9.05	3.71	0.41	1853	8.73	3.58	0.41	1970	8.52	3.49	0.41	2024	8.17	3.35	0.41	2109
23	18	8.34	5.76	0.69	1704	7.99	5.51	0.69	1789	7.67	5.29	0.69	1874	7.38	5.09	0.69	1960
23	20	8.70	4.96	0.57	1789	8.34	4.76	0.57	1896	8.09	4.61	0.57	1938	7.81	4.45	0.57	2024
23	22	9.05	4.07	0.45	1853	8.73	3.93	0.45	1970	8.52	3.83	0.45	2024	8.17	3.67	0.45	2109
24	18	8.34	6.09	0.73	1704	7.99	5.83	0.73	1789	7.67	5.60	0.73	1874	7.38	5.39	0.73	1960
24	20	8.70	5.31	0.61	1789	8.34	5.09	0.61	1896	8.09	4.94	0.61	1938	7.81	4.76	0.61	2024
24	22	9.05	4.44	0.49	1853	8.73	4.28	0.49	1970	8.52	4.17	0.49	2024	8.17	4.00	0.49	2109
24	24	9.51	3.52	0.37	1938	9.16	3.39	0.37	2045	8.95	3.31	0.37	2109	8.66	3.20	0.37	2215
25	18	8.34	6.42	0.77	1704	7.99	6.15	0.77	1789	7.67	5.90	0.77	1874	7.38	5.69	0.77	1960
25	20	8.70	5.65	0.65	1789	8.34	5.42	0.65	1896	8.09	5.26	0.65	1938	7.81	5.08	0.65	2024
25	22	9.05	4.80	0.53	1853	8.73	4.63	0.53	1970	8.52	4.52	0.53	2024	8.17	4.33	0.53	2109
25	24	9.51	3.90	0.41	1938	9.16	3.76	0.41	2045	8.95	3.67	0.41	2109	8.66	3.55	0.41	2215
26	18	8.34	6.76	0.81	1704	7.99	6.47	0.81	1789	7.67	6.21	0.81	1874	7.38	5.98	0.81	1960
26	20	8.70	6.00	0.69	1789	8.34	5.76	0.69	1896	8.09	5.58	0.69	1938	7.81	5.39	0.69	2024
26	22	9.05	5.16	0.57	1853	8.73	4.98	0.57	1970	8.52	4.86	0.57	2024	8.17	4.65	0.57	2109
26	24	9.51	4.28	0.45	1938	9.16	4.12	0.45	2045	8.95	4.03	0.45	2109	8.66	3.90	0.45	2215
26	26	9.80	3.23	0.33	2045	9.51	3.14	0.33	2151	9.37	3.09	0.33	2215	9.09	3.00	0.33	2279
27	18	8.34	7.09	0.85	1704	7.99	6.79	0.85	1789	7.67	6.52	0.85	1874	7.38	6.28	0.85	1960
27	20	8.70	6.35	0.73	1789	8.34	6.09	0.73	1896	8.09	5.91	0.73	1938	7.81	5.70	0.73	2024
27	22	9.05	5.52	0.61	1853	8.73	5.33	0.61	1970	8.52	5.20	0.61	2024	8.17	4.98	0.61	2109
27	24	9.51	4.66	0.49	1938	9.16	4.49	0.49	2045	8.95	4.38	0.49	2109	8.66	4.24	0.49	2215
27	26	9.80	3.63	0.37	2045	9.51	3.52	0.37	2151	9.37	3.47	0.37	2215	9.09	3.36	0.37	2279
28	18	8.34	7.42	0.89	1704	7.99	7.11	0.89	1789	7.67	6.82	0.89	1874	7.38	6.57	0.89	1960
28	20	8.70	6.70	0.77	1789	8.34	6.42	0.77	1896	8.09	6.23	0.77	1938	7.81	6.01	0.77	2024
28	22	9.05	5.88	0.65	1853	8.73	5.68	0.65	1970	8.52	5.54	0.65	2024	8.17	5.31	0.65	2109
28	24	9.51	5.04	0.53	1938	9.16	4.85	0.53	2045	8.95	4.74	0.53	2109	8.66	4.59	0.53	2215
28	26	9.80	4.02	0.41	2045	9.51	3.90	0.41	2151	9.37	3.84	0.41	2215	9.09	3.73	0.41	2279
29	18	8.34	7.76	0.93	1704	7.99	7.43	0.93	1789	7.67	7.13	0.93	1874	7.38	6.87	0.93	1960
29	20	8.70	7.04	0.81	1789	8.34	6.76	0.81	1896	8.09	6.56	0.81	1938	7.81	6.33	0.81	2024
29	22	9.05	6.25	0.69	1853	8.73	6.03	0.69	1970	8.52	5.88	0.69	2024	8.17	5.63	0.69	2109
29	24	9.51	5.42	0.57	1938	9.16	5.22	0.57	2045	8.95	5.10	0.57	2109	8.66	4.94	0.57	2215
29	26	9.80	4.41	0.45	2045	9.51	4.28	0.45	2151	9.37	4.22	0.45	2215	9.09	4.09	0.45	2279
30	18	8.34	8.09	0.97	1704	7.99	7.75	0.97	1789	7.67	7.44	0.97	1874	7.38	7.16	0.97	1960
30	20	8.70	7.39	0.85	1789	8.34	7.09	0.85	1896	8.09	6.88	0.85	1938	7.81	6.64	0.85	2024
30	22	9.05	6.61	0.73	1853	8.73	6.38	0.73	1970	8.52	6.22	0.73	2024	8.17	5.96	0.73	2109
30	24	9.51	5.80	0.61	1938	9.16	5.59	0.61	2045	8.95	5.46	0.61	2109	8.66	5.28	0.61	2215
30	26	9.80	4.80	0.49	2045	9.51	4.66	0.49	2151	9.37	4.59	0.49	2215	9.09	4.45	0.49	2279
31	18	8.34	8.34	1.00	1704	7.99	7.99	1.00	1789	7.67	7.67	1.00	1874	7.38	7.38	1.00	1960
31	20	8.70	7.74	0.89	1789	8.34	7.42	0.89	1896	8.09	7.20	0.89	1938	7.81	6.95	0.89	2024
31	22	9.05	6.97	0.77	1853	8.73	6.72	0.77	1970	8.52	6.56	0.77	2024	8.17	6.29	0.77	2109
31	24	9.51	6.18	0.65	1938	9.16	5.95	0.65	2045	8.95	5.81	0.65	2109	8.66	5.63	0.65	2215
31	26	9.80	5.19	0.53	2045	9.51	5.04	0.53	2151	9.37	4.97	0.53	2215	9.09	4.82	0.53	2279
32	18	8.34	8.34	1.00	1704	7.99	7.99	1.00	1789	7.67	7.67	1.00	1874	7.38	7.38	1.00	1960
32	20	8.70	8.09	0.93	1789	8.34	7.76	0.93	1896	8.09	7.53	0.93	1938	7.81	7.26	0.93	2024
32	22	9.05	7.33	0.81	1853	8.73	7.07	0.81	1970	8.52	6.90	0.81	2024	8.17	6.61	0.81	2109
32	24	9.51	6.56	0.69	1938	9.16	6.32	0.69	2045	8.95	6.17	0.69	2109	8.66	5.98	0.69	2215
32	26	9.80	5.58	0.57	2045	9.51	5.42	0.57	2151	9.37	5.34	0.57	2215	9.09	5.18	0.57	2279

NOTE Q : Total capacity (kW)

SHF : Sensible heat factor

DB : Dry-bulb temperature

SHC : Sensible heat capacity (kW)

INPUT : Total power input (W)

WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE71VA MUZ-GE71VAD

CAPACITY: 7.1 kW

SHF: 0.79

INPUT: 2130 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	6.96	4.24	0.61	2087	6.39	3.90	0.61	2215	5.89	3.59	0.61	2300
21	20	7.31	3.58	0.49	2173	6.82	3.34	0.49	2279	6.32	3.10	0.49	2407
22	18	6.96	4.52	0.65	2087	6.39	4.15	0.65	2215	5.89	3.83	0.65	2300
22	20	7.31	3.88	0.53	2173	6.82	3.61	0.53	2279	6.32	3.35	0.53	2407
22	22	7.74	3.17	0.41	2258	7.24	2.97	0.41	2386	6.75	2.77	0.41	2471
23	18	6.96	4.80	0.69	2087	6.39	4.41	0.69	2215	5.89	4.07	0.69	2300
23	20	7.31	4.17	0.57	2173	6.82	3.89	0.57	2279	6.32	3.60	0.57	2407
23	22	7.74	3.48	0.45	2258	7.24	3.26	0.45	2386	6.75	3.04	0.45	2471
24	18	6.96	5.08	0.73	2087	6.39	4.66	0.73	2215	5.89	4.30	0.73	2300
24	20	7.31	4.46	0.61	2173	6.82	4.16	0.61	2279	6.32	3.85	0.61	2407
24	22	7.74	3.79	0.49	2258	7.24	3.55	0.49	2386	6.75	3.31	0.49	2471
24	24	8.17	3.02	0.37	2343	7.67	2.84	0.37	2450	7.24	2.68	0.37	2556
25	18	6.96	5.36	0.77	2087	6.39	4.92	0.77	2215	5.89	4.54	0.77	2300
25	20	7.31	4.75	0.65	2173	6.82	4.43	0.65	2279	6.32	4.11	0.65	2407
25	22	7.74	4.10	0.53	2258	7.24	3.84	0.53	2386	6.75	3.57	0.53	2471
25	24	8.17	3.35	0.41	2343	7.67	3.14	0.41	2450	7.24	2.97	0.41	2556
26	18	6.96	5.64	0.81	2087	6.39	5.18	0.81	2215	5.89	4.77	0.81	2300
26	20	7.31	5.05	0.69	2173	6.82	4.70	0.69	2279	6.32	4.36	0.69	2407
26	22	7.74	4.41	0.57	2258	7.24	4.13	0.57	2386	6.75	3.84	0.57	2471
26	24	8.17	3.67	0.45	2343	7.67	3.45	0.45	2450	7.24	3.26	0.45	2556
26	26	8.59	2.84	0.33	2428	8.09	2.67	0.33	2535	7.60	2.51	0.33	2641
27	18	6.96	5.91	0.85	2087	6.39	5.43	0.85	2215	5.89	5.01	0.85	2300
27	20	7.31	5.34	0.73	2173	6.82	4.98	0.73	2279	6.32	4.61	0.73	2407
27	22	7.74	4.72	0.61	2258	7.24	4.42	0.61	2386	6.75	4.11	0.61	2471
27	24	8.17	4.00	0.49	2343	7.67	3.76	0.49	2450	7.24	3.55	0.49	2556
27	26	8.59	3.18	0.37	2428	8.09	2.99	0.37	2535	7.60	2.81	0.37	2641
28	18	6.96	6.19	0.89	2087	6.39	5.69	0.89	2215	5.89	5.24	0.89	2300
28	20	7.31	5.63	0.77	2173	6.82	5.25	0.77	2279	6.32	4.87	0.77	2407
28	22	7.74	5.03	0.65	2258	7.24	4.71	0.65	2386	6.75	4.38	0.65	2471
28	24	8.17	4.33	0.53	2343	7.67	4.06	0.53	2450	7.24	3.84	0.53	2556
28	26	8.59	3.52	0.41	2428	8.09	3.32	0.41	2535	7.60	3.11	0.41	2641
29	18	6.96	6.47	0.93	2087	6.39	5.94	0.93	2215	5.89	5.48	0.93	2300
29	20	7.31	5.92	0.81	2173	6.82	5.52	0.81	2279	6.32	5.12	0.81	2407
29	22	7.74	5.34	0.69	2258	7.24	5.00	0.69	2386	6.75	4.65	0.69	2471
29	24	8.17	4.65	0.57	2343	7.67	4.37	0.57	2450	7.24	4.13	0.57	2556
29	26	8.59	3.87	0.45	2428	8.09	3.64	0.45	2535	7.60	3.42	0.45	2641
30	18	6.96	6.75	0.97	2087	6.39	6.20	0.97	2215	5.89	5.72	0.97	2300
30	20	7.31	6.22	0.85	2173	6.82	5.79	0.85	2279	6.32	5.37	0.85	2407
30	22	7.74	5.65	0.73	2258	7.24	5.29	0.73	2386	6.75	4.92	0.73	2471
30	24	8.17	4.98	0.61	2343	7.67	4.68	0.61	2450	7.24	4.42	0.61	2556
30	26	8.59	4.21	0.49	2428	8.09	3.97	0.49	2535	7.60	3.72	0.49	2641
31	18	6.96	6.96	1.00	2087	6.39	6.39	1.00	2215	5.89	5.89	1.00	2300
31	20	7.31	6.51	0.89	2173	6.82	6.07	0.89	2279	6.32	5.62	0.89	2407
31	22	7.74	5.96	0.77	2258	7.24	5.58	0.77	2386	6.75	5.19	0.77	2471
31	24	8.17	5.31	0.65	2343	7.67	4.98	0.65	2450	7.24	4.71	0.65	2556
31	26	8.59	4.55	0.53	2428	8.09	4.29	0.53	2535	7.60	4.03	0.53	2641
32	18	6.96	6.96	1.00	2087	6.39	6.39	1.00	2215	5.89	5.89	1.00	2300
32	20	7.31	6.80	0.93	2173	6.82	6.34	0.93	2279	6.32	5.88	0.93	2407
32	22	7.74	6.27	0.81	2258	7.24	5.87	0.81	2386	6.75	5.46	0.81	2471
32	24	8.17	5.63	0.69	2343	7.67	5.29	0.69	2450	7.24	5.00	0.69	2556
32	26	8.59	4.90	0.57	2428	8.09	4.61	0.57	2535	7.60	4.33	0.57	2641

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE80VA

CAPACITY: 8.0 kW

SHF: 0.75

INPUT: 2560 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	9.40	5.36	0.57	2048	9.00	5.13	0.57	2150	8.64	4.92	0.57	2253	8.32	4.74	0.57	2355
21	20	9.80	4.41	0.45	2150	9.40	4.23	0.45	2278	9.12	4.10	0.45	2330	8.80	3.96	0.45	2432
22	18	9.40	5.73	0.61	2048	9.00	5.49	0.61	2150	8.64	5.27	0.61	2253	8.32	5.08	0.61	2355
22	20	9.80	4.80	0.49	2150	9.40	4.61	0.49	2278	9.12	4.47	0.49	2330	8.80	4.31	0.49	2432
22	22	10.20	3.77	0.37	2227	9.84	3.64	0.37	2368	9.60	3.55	0.37	2432	9.20	3.40	0.37	2534
23	18	9.40	6.11	0.65	2048	9.00	5.85	0.65	2150	8.64	5.62	0.65	2253	8.32	5.41	0.65	2355
23	20	9.80	5.19	0.53	2150	9.40	4.98	0.53	2278	9.12	4.83	0.53	2330	8.80	4.66	0.53	2432
23	22	10.20	4.18	0.41	2227	9.84	4.03	0.41	2368	9.60	3.94	0.41	2432	9.20	3.77	0.41	2534
24	18	9.40	6.49	0.69	2048	9.00	6.21	0.69	2150	8.64	5.96	0.69	2253	8.32	5.74	0.69	2355
24	20	9.80	5.59	0.57	2150	9.40	5.36	0.57	2278	9.12	5.20	0.57	2330	8.80	5.02	0.57	2432
24	22	10.20	4.59	0.45	2227	9.84	4.43	0.45	2368	9.60	4.32	0.45	2432	9.20	4.14	0.45	2534
24	24	10.72	3.54	0.33	2330	10.32	3.41	0.33	2458	10.08	3.33	0.33	2534	9.76	3.22	0.33	2662
25	18	9.40	6.86	0.73	2048	9.00	6.57	0.73	2150	8.64	6.31	0.73	2253	8.32	6.07	0.73	2355
25	20	9.80	5.98	0.61	2150	9.40	5.73	0.61	2278	9.12	5.56	0.61	2330	8.80	5.37	0.61	2432
25	22	10.20	5.00	0.49	2227	9.84	4.82	0.49	2368	9.60	4.70	0.49	2432	9.20	4.51	0.49	2534
25	24	10.72	3.97	0.37	2330	10.32	3.82	0.37	2458	10.08	3.73	0.37	2534	9.76	3.61	0.37	2662
26	18	9.40	7.24	0.77	2048	9.00	6.93	0.77	2150	8.64	6.65	0.77	2253	8.32	6.41	0.77	2355
26	20	9.80	6.37	0.65	2150	9.40	6.11	0.65	2278	9.12	5.93	0.65	2330	8.80	5.72	0.65	2432
26	22	10.20	5.41	0.53	2227	9.84	5.22	0.53	2368	9.60	5.09	0.53	2432	9.20	4.88	0.53	2534
26	24	10.72	4.40	0.41	2330	10.32	4.23	0.41	2458	10.08	4.13	0.41	2534	9.76	4.00	0.41	2662
26	26	11.04	3.20	0.29	2458	10.72	3.11	0.29	2586	10.56	3.06	0.29	2662	10.24	2.97	0.29	2739
27	18	9.40	7.61	0.81	2048	9.00	7.29	0.81	2150	8.64	7.00	0.81	2253	8.32	6.74	0.81	2355
27	20	9.80	6.76	0.69	2150	9.40	6.49	0.69	2278	9.12	6.29	0.69	2330	8.80	6.07	0.69	2432
27	22	10.20	5.81	0.57	2227	9.84	5.61	0.57	2368	9.60	5.47	0.57	2432	9.20	5.24	0.57	2534
27	24	10.72	4.82	0.45	2330	10.32	4.64	0.45	2458	10.08	4.54	0.45	2534	9.76	4.39	0.45	2662
27	26	11.04	3.64	0.33	2458	10.72	3.54	0.33	2586	10.56	3.48	0.33	2662	10.24	3.38	0.33	2739
28	18	9.40	7.99	0.85	2048	9.00	7.65	0.85	2150	8.64	7.34	0.85	2253	8.32	7.07	0.85	2355
28	20	9.80	7.15	0.73	2150	9.40	6.86	0.73	2278	9.12	6.66	0.73	2330	8.80	6.42	0.73	2432
28	22	10.20	6.22	0.61	2227	9.84	6.00	0.61	2368	9.60	5.86	0.61	2432	9.20	5.61	0.61	2534
28	24	10.72	5.25	0.49	2330	10.32	5.06	0.49	2458	10.08	4.94	0.49	2534	9.76	4.78	0.49	2662
28	26	11.04	4.08	0.37	2458	10.72	3.97	0.37	2586	10.56	3.91	0.37	2662	10.24	3.79	0.37	2739
29	18	9.40	8.37	0.89	2048	9.00	8.01	0.89	2150	8.64	7.69	0.89	2253	8.32	7.40	0.89	2355
29	20	9.80	7.55	0.77	2150	9.40	7.24	0.77	2278	9.12	7.02	0.77	2330	8.80	6.78	0.77	2432
29	22	10.20	6.63	0.65	2227	9.84	6.40	0.65	2368	9.60	6.24	0.65	2432	9.20	5.98	0.65	2534
29	24	10.72	5.68	0.53	2330	10.32	5.47	0.53	2458	10.08	5.34	0.53	2534	9.76	5.17	0.53	2662
29	26	11.04	4.53	0.41	2458	10.72	4.40	0.41	2586	10.56	4.33	0.41	2662	10.24	4.20	0.41	2739
30	18	9.40	8.74	0.93	2048	9.00	8.37	0.93	2150	8.64	8.04	0.93	2253	8.32	7.74	0.93	2355
30	20	9.80	7.94	0.81	2150	9.40	7.61	0.81	2278	9.12	7.39	0.81	2330	8.80	7.13	0.81	2432
30	22	10.20	7.04	0.69	2227	9.84	6.79	0.69	2368	9.60	6.62	0.69	2432	9.20	6.35	0.69	2534
30	24	10.72	6.11	0.57	2330	10.32	5.88	0.57	2458	10.08	5.75	0.57	2534	9.76	5.56	0.57	2662
30	26	11.04	4.97	0.45	2458	10.72	4.82	0.45	2586	10.56	4.75	0.45	2662	10.24	4.61	0.45	2739
31	18	9.40	9.12	0.97	2048	9.00	8.73	0.97	2150	8.64	8.38	0.97	2253	8.32	8.07	0.97	2355
31	20	9.80	8.33	0.85	2150	9.40	7.99	0.85	2278	9.12	7.75	0.85	2330	8.80	7.48	0.85	2432
31	22	10.20	7.45	0.73	2227	9.84	7.18	0.73	2368	9.60	7.01	0.73	2432	9.20	6.72	0.73	2534
31	24	10.72	6.54	0.61	2330	10.32	6.30	0.61	2458	10.08	6.15	0.61	2534	9.76	5.95	0.61	2662
31	26	11.04	5.41	0.49	2458	10.72	5.25	0.49	2586	10.56	5.17	0.49	2662	10.24	5.02	0.49	2739
32	18	9.40	9.40	1.00	2048	9.00	9.00	1.00	2150	8.64	8.64	1.00	2253	8.32	8.32	1.00	2355
32	20	9.80	8.72	0.89	2150	9.40	8.37	0.89	2278	9.12	8.12	0.89	2330	8.80	7.83	0.89	2432
32	22	10.20	7.85	0.77	2227	9.84	7.58	0.77	2368	9.60	7.39	0.77	2432	9.20	7.08	0.77	2534
32	24	10.72	6.97	0.65	2330	10.32	6.71	0.65	2458	10.08	6.55	0.65	2534	9.76	6.34	0.65	2662
32	26	11.04	5.85	0.53	2458	10.72	5.68	0.53	2586	10.56	5.60	0.53	2662	10.24	5.43	0.53	2739

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE80VA

CAPACITY: 8.0 kW

SHF: 0.75

INPUT: 2560 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	7.84	4.47	0.57	2509	7.20	4.10	0.57	2662	6.64	3.78	0.57	2765
21	20	8.24	3.71	0.45	2611	7.68	3.46	0.45	2739	7.12	3.20	0.45	2893
22	18	7.84	4.78	0.61	2509	7.20	4.39	0.61	2662	6.64	4.05	0.61	2765
22	20	8.24	4.04	0.49	2611	7.68	3.76	0.49	2739	7.12	3.49	0.49	2893
22	22	8.72	3.23	0.37	2714	8.16	3.02	0.37	2867	7.60	2.81	0.37	2970
23	18	7.84	5.10	0.65	2509	7.20	4.68	0.65	2662	6.64	4.32	0.65	2765
23	20	8.24	4.37	0.53	2611	7.68	4.07	0.53	2739	7.12	3.77	0.53	2893
23	22	8.72	3.58	0.41	2714	8.16	3.35	0.41	2867	7.60	3.12	0.41	2970
24	18	7.84	5.41	0.69	2509	7.20	4.97	0.69	2662	6.64	4.58	0.69	2765
24	20	8.24	4.70	0.57	2611	7.68	4.38	0.57	2739	7.12	4.06	0.57	2893
24	22	8.72	3.92	0.45	2714	8.16	3.67	0.45	2867	7.60	3.42	0.45	2970
24	24	9.20	3.04	0.33	2816	8.64	2.85	0.33	2944	8.16	2.69	0.33	3072
25	18	7.84	5.72	0.73	2509	7.20	5.26	0.73	2662	6.64	4.85	0.73	2765
25	20	8.24	5.03	0.61	2611	7.68	4.68	0.61	2739	7.12	4.34	0.61	2893
25	22	8.72	4.27	0.49	2714	8.16	4.00	0.49	2867	7.60	3.72	0.49	2970
25	24	9.20	3.40	0.37	2816	8.64	3.20	0.37	2944	8.16	3.02	0.37	3072
26	18	7.84	6.04	0.77	2509	7.20	5.54	0.77	2662	6.64	5.11	0.77	2765
26	20	8.24	5.36	0.65	2611	7.68	4.99	0.65	2739	7.12	4.63	0.65	2893
26	22	8.72	4.62	0.53	2714	8.16	4.32	0.53	2867	7.60	4.03	0.53	2970
26	24	9.20	3.77	0.41	2816	8.64	3.54	0.41	2944	8.16	3.35	0.41	3072
26	26	9.68	2.81	0.29	2918	9.12	2.64	0.29	3046	8.56	2.48	0.29	3174
27	18	7.84	6.35	0.81	2509	7.20	5.83	0.81	2662	6.64	5.38	0.81	2765
27	20	8.24	5.69	0.69	2611	7.68	5.30	0.69	2739	7.12	4.91	0.69	2893
27	22	8.72	4.97	0.57	2714	8.16	4.65	0.57	2867	7.60	4.33	0.57	2970
27	24	9.20	4.14	0.45	2816	8.64	3.89	0.45	2944	8.16	3.67	0.45	3072
27	26	9.68	3.19	0.33	2918	9.12	3.01	0.33	3046	8.56	2.82	0.33	3174
28	18	7.84	6.66	0.85	2509	7.20	6.12	0.85	2662	6.64	5.64	0.85	2765
28	20	8.24	6.02	0.73	2611	7.68	5.61	0.73	2739	7.12	5.20	0.73	2893
28	22	8.72	5.32	0.61	2714	8.16	4.98	0.61	2867	7.60	4.64	0.61	2970
28	24	9.20	4.51	0.49	2816	8.64	4.23	0.49	2944	8.16	4.00	0.49	3072
28	26	9.68	3.58	0.37	2918	9.12	3.37	0.37	3046	8.56	3.17	0.37	3174
29	18	7.84	6.98	0.89	2509	7.20	6.41	0.89	2662	6.64	5.91	0.89	2765
29	20	8.24	6.34	0.77	2611	7.68	5.91	0.77	2739	7.12	5.48	0.77	2893
29	22	8.72	5.67	0.65	2714	8.16	5.30	0.65	2867	7.60	4.94	0.65	2970
29	24	9.20	4.88	0.53	2816	8.64	4.58	0.53	2944	8.16	4.32	0.53	3072
29	26	9.68	3.97	0.41	2918	9.12	3.74	0.41	3046	8.56	3.51	0.41	3174
30	18	7.84	7.29	0.93	2509	7.20	6.70	0.93	2662	6.64	6.18	0.93	2765
30	20	8.24	6.67	0.81	2611	7.68	6.22	0.81	2739	7.12	5.77	0.81	2893
30	22	8.72	6.02	0.69	2714	8.16	5.63	0.69	2867	7.60	5.24	0.69	2970
30	24	9.20	5.24	0.57	2816	8.64	4.92	0.57	2944	8.16	4.65	0.57	3072
30	26	9.68	4.36	0.45	2918	9.12	4.10	0.45	3046	8.56	3.85	0.45	3174
31	18	7.84	7.60	0.97	2509	7.20	6.98	0.97	2662	6.64	6.44	0.97	2765
31	20	8.24	7.00	0.85	2611	7.68	6.53	0.85	2739	7.12	6.05	0.85	2893
31	22	8.72	6.37	0.73	2714	8.16	5.96	0.73	2867	7.60	5.55	0.73	2970
31	24	9.20	5.61	0.61	2816	8.64	5.27	0.61	2944	8.16	4.98	0.61	3072
31	26	9.68	4.74	0.49	2918	9.12	4.47	0.49	3046	8.56	4.19	0.49	3174
32	18	7.84	7.84	1.00	2509	7.20	7.20	1.00	2662	6.64	6.64	1.00	2765
32	20	8.24	7.33	0.89	2611	7.68	6.84	0.89	2739	7.12	6.34	0.89	2893
32	22	8.72	6.71	0.77	2714	8.16	6.28	0.77	2867	7.60	5.85	0.77	2970
32	24	9.20	5.98	0.65	2816	8.64	5.62	0.65	2944	8.16	5.30	0.65	3072
32	26	9.68	5.13	0.53	2918	9.12	4.83	0.53	3046	8.56	4.54	0.53	3174

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE80VA2 MUZ-GE80VAD

CAPACITY: 7.8 kW

SHF: 0.76

INPUT: 2460 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	9.17	5.32	0.58	1968	8.78	5.09	0.58	2066	8.42	4.89	0.58	2165	8.11	4.70	0.58	2263
21	20	9.56	4.40	0.46	2066	9.17	4.22	0.46	2189	8.89	4.09	0.46	2239	8.58	3.95	0.46	2337
22	18	9.17	5.68	0.62	1968	8.78	5.44	0.62	2066	8.42	5.22	0.62	2165	8.11	5.03	0.62	2263
22	20	9.56	4.78	0.50	2066	9.17	4.58	0.50	2189	8.89	4.45	0.50	2239	8.58	4.29	0.50	2337
22	22	9.95	3.78	0.38	2140	9.59	3.65	0.38	2276	9.36	3.56	0.38	2337	8.97	3.41	0.38	2435
23	18	9.17	6.05	0.66	1968	8.78	5.79	0.66	2066	8.42	5.56	0.66	2165	8.11	5.35	0.66	2263
23	20	9.56	5.16	0.54	2066	9.17	4.95	0.54	2189	8.89	4.80	0.54	2239	8.58	4.63	0.54	2337
23	22	9.95	4.18	0.42	2140	9.59	4.03	0.42	2276	9.36	3.93	0.42	2337	8.97	3.77	0.42	2435
24	18	9.17	6.42	0.70	1968	8.78	6.14	0.70	2066	8.42	5.90	0.70	2165	8.11	5.68	0.70	2263
24	20	9.56	5.54	0.58	2066	9.17	5.32	0.58	2189	8.89	5.16	0.58	2239	8.58	4.98	0.58	2337
24	22	9.95	4.57	0.46	2140	9.59	4.41	0.46	2276	9.36	4.31	0.46	2337	8.97	4.13	0.46	2435
24	24	10.45	3.55	0.34	2239	10.06	3.42	0.34	2362	9.83	3.34	0.34	2435	9.52	3.24	0.34	2558
25	18	9.17	6.78	0.74	1968	8.78	6.49	0.74	2066	8.42	6.23	0.74	2165	8.11	6.00	0.74	2263
25	20	9.56	5.92	0.62	2066	9.17	5.68	0.62	2189	8.89	5.51	0.62	2239	8.58	5.32	0.62	2337
25	22	9.95	4.97	0.50	2140	9.59	4.80	0.50	2276	9.36	4.68	0.50	2337	8.97	4.49	0.50	2435
25	24	10.45	3.97	0.38	2239	10.06	3.82	0.38	2362	9.83	3.73	0.38	2435	9.52	3.62	0.38	2558
26	18	9.17	7.15	0.78	1968	8.78	6.84	0.78	2066	8.42	6.57	0.78	2165	8.11	6.33	0.78	2263
26	20	9.56	6.31	0.66	2066	9.17	6.05	0.66	2189	8.89	5.87	0.66	2239	8.58	5.66	0.66	2337
26	22	9.95	5.37	0.54	2140	9.59	5.18	0.54	2276	9.36	5.05	0.54	2337	8.97	4.84	0.54	2435
26	24	10.45	4.39	0.42	2239	10.06	4.23	0.42	2362	9.83	4.13	0.42	2435	9.52	4.00	0.42	2558
26	26	10.76	3.23	0.30	2362	10.45	3.14	0.30	2485	10.30	3.09	0.30	2558	9.98	3.00	0.30	2632
27	18	9.17	7.52	0.82	1968	8.78	7.20	0.82	2066	8.42	6.91	0.82	2165	8.11	6.65	0.82	2263
27	20	9.56	6.69	0.70	2066	9.17	6.42	0.70	2189	8.89	6.22	0.70	2239	8.58	6.01	0.70	2337
27	22	9.95	5.77	0.58	2140	9.59	5.56	0.58	2276	9.36	5.43	0.58	2337	8.97	5.20	0.58	2435
27	24	10.45	4.81	0.46	2239	10.06	4.63	0.46	2362	9.83	4.52	0.46	2435	9.52	4.38	0.46	2558
27	26	10.76	3.66	0.34	2362	10.45	3.55	0.34	2485	10.30	3.50	0.34	2558	9.98	3.39	0.34	2632
28	18	9.17	7.88	0.86	1968	8.78	7.55	0.86	2066	8.42	7.24	0.86	2165	8.11	6.98	0.86	2263
28	20	9.56	7.07	0.74	2066	9.17	6.78	0.74	2189	8.89	6.58	0.74	2239	8.58	6.35	0.74	2337
28	22	9.95	6.17	0.62	2140	9.59	5.95	0.62	2276	9.36	5.80	0.62	2337	8.97	5.56	0.62	2435
28	24	10.45	5.23	0.50	2239	10.06	5.03	0.50	2362	9.83	4.91	0.50	2435	9.52	4.76	0.50	2558
28	26	10.76	4.09	0.38	2362	10.45	3.97	0.38	2485	10.30	3.91	0.38	2558	9.98	3.79	0.38	2632
29	18	9.17	8.25	0.90	1968	8.78	7.90	0.90	2066	8.42	7.58	0.90	2165	8.11	7.30	0.90	2263
29	20	9.56	7.45	0.78	2066	9.17	7.15	0.78	2189	8.89	6.94	0.78	2239	8.58	6.69	0.78	2337
29	22	9.95	6.56	0.66	2140	9.59	6.33	0.66	2276	9.36	6.18	0.66	2337	8.97	5.92	0.66	2435
29	24	10.45	5.64	0.54	2239	10.06	5.43	0.54	2362	9.83	5.31	0.54	2435	9.52	5.14	0.54	2558
29	26	10.76	4.52	0.42	2362	10.45	4.39	0.42	2485	10.30	4.32	0.42	2558	9.98	4.19	0.42	2632
30	18	9.17	8.62	0.94	1968	8.78	8.25	0.94	2066	8.42	7.92	0.94	2165	8.11	7.63	0.94	2263
30	20	9.56	7.84	0.82	2066	9.17	7.52	0.82	2189	8.89	7.29	0.82	2239	8.58	7.04	0.82	2337
30	22	9.95	6.96	0.70	2140	9.59	6.72	0.70	2276	9.36	6.55	0.70	2337	8.97	6.28	0.70	2435
30	24	10.45	6.06	0.58	2239	10.06	5.84	0.58	2362	9.83	5.70	0.58	2435	9.52	5.52	0.58	2558
30	26	10.76	4.95	0.46	2362	10.45	4.81	0.46	2485	10.30	4.74	0.46	2558	9.98	4.59	0.46	2632
31	18	9.17	8.98	0.98	1968	8.78	8.60	0.98	2066	8.42	8.26	0.98	2165	8.11	7.95	0.98	2263
31	20	9.56	8.22	0.86	2066	9.17	7.88	0.86	2189	8.89	7.65	0.86	2239	8.58	7.38	0.86	2337
31	22	9.95	7.36	0.74	2140	9.59	7.10	0.74	2276	9.36	6.93	0.74	2337	8.97	6.64	0.74	2435
31	24	10.45	6.48	0.62	2239	10.06	6.24	0.62	2362	9.83	6.09	0.62	2435	9.52	5.90	0.62	2558
31	26	10.76	5.38	0.50	2362	10.45	5.23	0.50	2485	10.30	5.15	0.50	2558	9.98	4.99	0.50	2632
32	18	9.17	9.17	1.00	1968	8.78	8.78	1.00	2066	8.42	8.42	1.00	2165	8.11	8.11	1.00	2263
32	20	9.56	8.60	0.90	2066	9.17	8.25	0.90	2189	8.89	8.00	0.90	2239	8.58	7.72	0.90	2337
32	22	9.95	7.76	0.78	2140	9.59	7.48	0.78	2276	9.36	7.30	0.78	2337	8.97	7.00	0.78	2435
32	24	10.45	6.90	0.66	2239	10.06	6.64	0.66	2362	9.83	6.49	0.66	2435	9.52	6.28	0.66	2558
32	26	10.76	5.81	0.54	2362	10.45	5.64	0.54	2485	10.30	5.56	0.54	2558	9.98	5.39	0.54	2632

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-GE80VA2 MUZ-GE80VAD

CAPACITY: 7.8 kW

SHF: 0.76

INPUT: 2460 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	7.64	4.43	0.58	2411	7.02	4.07	0.58	2558	6.47	3.75	0.58	2657
21	20	8.03	3.70	0.46	2509	7.49	3.44	0.46	2632	6.94	3.19	0.46	2780
22	18	7.64	4.74	0.62	2411	7.02	4.35	0.62	2558	6.47	4.01	0.62	2657
22	20	8.03	4.02	0.50	2509	7.49	3.74	0.50	2632	6.94	3.47	0.50	2780
22	22	8.50	3.23	0.38	2608	7.96	3.02	0.38	2755	7.41	2.82	0.38	2854
23	18	7.64	5.05	0.66	2411	7.02	4.63	0.66	2558	6.47	4.27	0.66	2657
23	20	8.03	4.34	0.54	2509	7.49	4.04	0.54	2632	6.94	3.75	0.54	2780
23	22	8.50	3.57	0.42	2608	7.96	3.34	0.42	2755	7.41	3.11	0.42	2854
24	18	7.64	5.35	0.70	2411	7.02	4.91	0.70	2558	6.47	4.53	0.70	2657
24	20	8.03	4.66	0.58	2509	7.49	4.34	0.58	2632	6.94	4.03	0.58	2780
24	22	8.50	3.91	0.46	2608	7.96	3.66	0.46	2755	7.41	3.41	0.46	2854
24	24	8.97	3.05	0.34	2706	8.42	2.86	0.34	2829	7.96	2.71	0.34	2952
25	18	7.64	5.66	0.74	2411	7.02	5.19	0.74	2558	6.47	4.79	0.74	2657
25	20	8.03	4.98	0.62	2509	7.49	4.64	0.62	2632	6.94	4.30	0.62	2780
25	22	8.50	4.25	0.50	2608	7.96	3.98	0.50	2755	7.41	3.71	0.50	2854
25	24	8.97	3.41	0.38	2706	8.42	3.20	0.38	2829	7.96	3.02	0.38	2952
26	18	7.64	5.96	0.78	2411	7.02	5.48	0.78	2558	6.47	5.05	0.78	2657
26	20	8.03	5.30	0.66	2509	7.49	4.94	0.66	2632	6.94	4.58	0.66	2780
26	22	8.50	4.59	0.54	2608	7.96	4.30	0.54	2755	7.41	4.00	0.54	2854
26	24	8.97	3.77	0.42	2706	8.42	3.54	0.42	2829	7.96	3.34	0.42	2952
26	26	9.44	2.83	0.30	2804	8.89	2.67	0.30	2927	8.35	2.50	0.30	3050
27	18	7.64	6.27	0.82	2411	7.02	5.76	0.82	2558	6.47	5.31	0.82	2657
27	20	8.03	5.62	0.70	2509	7.49	5.24	0.70	2632	6.94	4.86	0.70	2780
27	22	8.50	4.93	0.58	2608	7.96	4.61	0.58	2755	7.41	4.30	0.58	2854
27	24	8.97	4.13	0.46	2706	8.42	3.88	0.46	2829	7.96	3.66	0.46	2952
27	26	9.44	3.21	0.34	2804	8.89	3.02	0.34	2927	8.35	2.84	0.34	3050
28	18	7.64	6.57	0.86	2411	7.02	6.04	0.86	2558	6.47	5.57	0.86	2657
28	20	8.03	5.95	0.74	2509	7.49	5.54	0.74	2632	6.94	5.14	0.74	2780
28	22	8.50	5.27	0.62	2608	7.96	4.93	0.62	2755	7.41	4.59	0.62	2854
28	24	8.97	4.49	0.50	2706	8.42	4.21	0.50	2829	7.96	3.98	0.50	2952
28	26	9.44	3.59	0.38	2804	8.89	3.38	0.38	2927	8.35	3.17	0.38	3050
29	18	7.64	6.88	0.90	2411	7.02	6.32	0.90	2558	6.47	5.83	0.90	2657
29	20	8.03	6.27	0.78	2509	7.49	5.84	0.78	2632	6.94	5.41	0.78	2780
29	22	8.50	5.61	0.66	2608	7.96	5.25	0.66	2755	7.41	4.89	0.66	2854
29	24	8.97	4.84	0.54	2706	8.42	4.55	0.54	2829	7.96	4.30	0.54	2952
29	26	9.44	3.96	0.42	2804	8.89	3.73	0.42	2927	8.35	3.51	0.42	3050
30	18	7.64	7.19	0.94	2411	7.02	6.60	0.94	2558	6.47	6.09	0.94	2657
30	20	8.03	6.59	0.82	2509	7.49	6.14	0.82	2632	6.94	5.69	0.82	2780
30	22	8.50	5.95	0.70	2608	7.96	5.57	0.70	2755	7.41	5.19	0.70	2854
30	24	8.97	5.20	0.58	2706	8.42	4.89	0.58	2829	7.96	4.61	0.58	2952
30	26	9.44	4.34	0.46	2804	8.89	4.09	0.46	2927	8.35	3.84	0.46	3050
31	18	7.64	7.49	0.98	2411	7.02	6.88	0.98	2558	6.47	6.34	0.98	2657
31	20	8.03	6.91	0.86	2509	7.49	6.44	0.86	2632	6.94	5.97	0.86	2780
31	22	8.50	6.29	0.74	2608	7.96	5.89	0.74	2755	7.41	5.48	0.74	2854
31	24	8.97	5.56	0.62	2706	8.42	5.22	0.62	2829	7.96	4.93	0.62	2952
31	26	9.44	4.72	0.50	2804	8.89	4.45	0.50	2927	8.35	4.17	0.50	3050
32	18	7.64	7.64	1.00	2411	7.02	7.02	1.00	2558	6.47	6.47	1.00	2657
32	20	8.03	7.23	0.90	2509	7.49	6.74	0.90	2632	6.94	6.25	0.90	2780
32	22	8.50	6.63	0.78	2608	7.96	6.21	0.78	2755	7.41	5.78	0.78	2854
32	24	8.97	5.92	0.66	2706	8.42	5.56	0.66	2829	7.96	5.25	0.66	2952
32	26	9.44	5.10	0.54	2804	8.89	4.80	0.54	2927	8.35	4.51	0.54	3050

NOTE Q : Total capacity (kW)

SHF : Sensible heat factor

DB : Dry-bulb temperature

SHC : Sensible heat capacity (kW)

INPUT : Total power input (W)

WB : Wet-bulb temperature

PERFORMANCE DATA HEAT operation at Rated frequency**MUZ-GE25VA MUZ-GE25VAD**

CAPACITY: 3.2 kW INPUT: 730 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.60	380	2.02	475	2.43	569	2.85	642	3.26	694	3.68	737	4.06	759	4.48	774
21	1.50	404	1.92	511	2.30	606	2.72	672	3.10	723	3.52	759	3.90	781	4.30	810
26	1.31	438	1.73	548	2.14	642	2.53	708	2.94	759	3.36	796	3.74	818	4.16	840

MUZ-GE33VA MUZ-GE35VA

CAPACITY: 4.0 kW INPUT: 1030 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.00	536	2.52	670	3.04	803	3.56	906	4.08	979	4.60	1040	5.08	1071	5.60	1092
21	1.88	571	2.40	721	2.88	855	3.40	948	3.88	1020	4.40	1071	4.88	1102	5.38	1143
26	1.64	618	2.16	773	2.68	906	3.16	999	3.68	1071	4.20	1123	4.68	1154	5.20	1185

MUZ-GE35VA2 MUZ-GE35VAD

CAPACITY: 4.0 kW INPUT: 990 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.00	515	2.52	644	3.04	772	3.56	871	4.08	941	4.60	1000	5.08	1030	5.60	1049
21	1.88	545	2.40	693	2.88	822	3.40	911	3.88	980	4.40	1030	4.88	1059	5.38	1099
26	1.64	594	2.16	743	2.68	871	3.16	960	3.68	1030	4.20	1079	4.68	1109	5.20	1139

MUZ-GE42VA MUZ-GE42VAD

CAPACITY: 5.4 kW INPUT: 1460 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.70	801	3.40	1001	4.10	1201	4.81	1355	5.51	1463	6.21	1555	6.86	1602	7.56	1632
21	2.54	847	3.24	1078	3.89	1278	4.59	1417	5.24	1525	5.94	1602	6.59	1648	7.26	1709
26	2.21	924	2.92	1155	3.62	1355	4.27	1494	4.97	1602	5.67	1679	6.32	1725	7.02	1771

MUZ-GE50VA

CAPACITY: 5.8 kW INPUT: 1650 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.90	858	3.65	1073	4.41	1287	5.16	1452	5.92	1568	6.67	1667	7.37	1716	8.12	1749
21	2.73	914	3.48	1155	4.18	1370	4.93	1518	5.63	1634	6.38	1716	7.08	1766	7.80	1832
26	2.38	990	3.13	1238	3.89	1452	4.58	1601	5.34	1716	6.09	1799	6.79	1848	7.54	1898

MUZ-GE50VA2 MUZ-GE50VAD

CAPACITY: 5.8 kW INPUT: 1650 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.90	858	3.65	1073	4.41	1287	5.16	1452	5.92	1568	6.67	1667	7.37	1716	8.12	1749
21	2.73	908	3.48	1155	4.18	1370	4.93	1518	5.63	1634	6.38	1716	7.08	1766	7.80	1832
26	2.38	990	3.13	1238	3.89	1452	4.58	1601	5.34	1716	6.09	1799	6.79	1848	7.54	1898

MUZ-GE60VA MUZ-GE60VAD

CAPACITY: 6.8 kW INPUT: 1770 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.40	920	4.28	1151	5.17	1381	6.05	1558	6.94	1682	7.82	1788	8.64	1841	9.52	1876
21	3.20	981	4.08	1239	4.90	1469	5.78	1628	6.60	1752	7.48	1841	8.30	1894	9.15	1965
26	2.79	1062	3.67	1328	4.56	1558	5.37	1717	6.26	1841	7.14	1929	7.96	1982	8.84	2036

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

PERFORMANCE DATA HEAT operation at Rated frequency

MUZ-GE71VA MUZ-GE71VAD

CAPACITY: 8.1 kW INPUT: 2110 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	4.05	1097	5.10	1372	6.16	1646	7.21	1857	8.26	2005	9.32	2131	10.29	2194	11.34	2237
21	3.81	1169	4.86	1477	5.83	1751	6.89	1941	7.86	2089	8.91	2194	9.88	2258	10.89	2342
26	3.32	1266	4.37	1583	5.43	1857	6.40	2047	7.45	2194	8.51	2300	9.48	2363	10.53	2427

MUZ-GE80VA

CAPACITY: 9.0 kW INPUT: 2540 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	4.50	1321	5.67	1651	6.84	1981	8.01	2235	9.18	2413	10.35	2565	11.43	2642	12.60	2692
21	4.23	1407	5.40	1778	6.48	2108	7.65	2337	8.73	2515	9.90	2642	10.98	2718	12.11	2819
26	3.69	1524	4.86	1905	6.03	2235	7.11	2464	8.28	2642	9.45	2769	10.53	2845	11.70	2921

MUZ-GE80VA2 MUZ-GE80VAD

CAPACITY: 9.0 kW INPUT: 2550 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	4.50	1326	5.67	1658	6.84	1989	8.01	2244	9.18	2423	10.35	2576	11.43	2652	12.60	2703
21	4.23	1413	5.40	1785	6.48	2117	7.65	2346	8.73	2525	9.90	2652	10.98	2729	12.11	2831
26	3.69	1530	4.86	1913	6.03	2244	7.11	2474	8.28	2652	9.45	2780	10.53	2856	11.70	2933

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

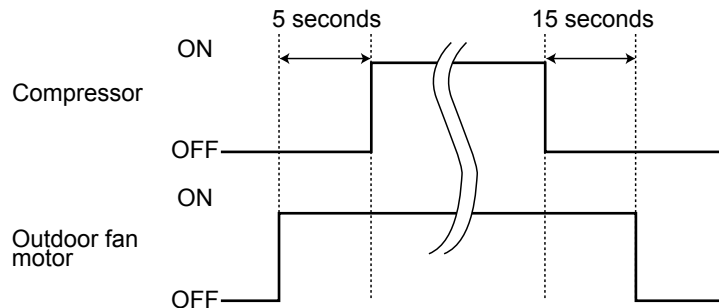
MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
 MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD
 MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
 MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

9-1. OUTDOOR FAN MOTOR CONTROL

The fan motor turns ON/OFF, interlocking with the compressor.

[ON] The fan motor turns ON 5 seconds before the compressor starts up.

[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



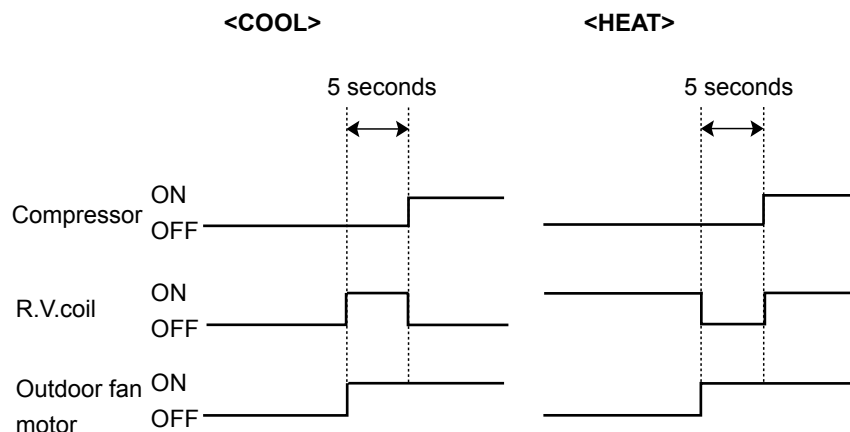
9-2. R.V. COIL CONTROL

Heating ON

Cooling OFF

Dry OFF

NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.



9-3. RELATION BETWEEN MAIN SENSOR AND ACTUATOR

Sensor	Purpose	Actuator				
		Compressor	LEV	Outdoor fan motor	R.V.coil	Indoor fan motor
Discharge temperature thermistor	Protection	○	○			
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○				
	Heating: High pressure protection	○	○			
Defrost thermistor	Heating: Defrosting	○	○	○	○	○
Fin temperature thermistor	Protection	○		○		
Ambient temperature thermistor	Cooling: Low ambient temperature operation	○	○	○		
Outdoor heat exchanger temperature thermistor	Cooling: Low ambient temperature operation	○	○	○		
	Cooling: High pressure protection	○	○	○		

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
 MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD
 MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
 MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

10-1. CHANGE IN DEFROST SETTING

Changing defrost finish temperature

<JS> To change the defrost finish temperature, cut/solder the JS wire of the outdoor inverter P.C. board. (Refer to 11-6-1.)

Jumper wire		Defrost finish temperature (°C)							
		MUZ-GE							
		25VA	33VA	35VA 35VA2	42VA	50VA 50VA2	60VA 60VAD	71VA 71VAD	80VA 80VA2 80VAD
JS	Soldered (Initial setting)	5	10	10	5	9	10	10	10
	None (Cut)	8	13	13	10	18	18	18	18

MUZ-GE25/35/42/50VAD do not have this changing function. The defrost finish temperature is fixed to the temperatures shown in the table below. The JS wire for these models is used for changing the demand response capability.

Defrost finish temperature (°C)			
MUZ-GE			
25VAD	35VAD	42VAD	50VAD
5	10	5	9

10-2. PRE-HEAT CONTROL SETTING

PRE-HEAT CONTROL

MUZ-GE25/33/35/42/50

When moisture gets into the refrigerant cycle, it may interfere the start-up of the compressor at low outside temperature. The pre-heat control prevents this interference. The pre-heat control turns ON when the discharge temperature thermistor is 20°C or below. When the pre-heat control turns ON, the compressor is energized. (About 50 W)

MUZ-GE60/71/80

Prolonged low load operation, in which the thermostat is OFF for a long time, at low outside temperature (0°C or less) may cause the following troubles. To prevent those troubles, activate the pre-heat control.

- 1) If moisture gets into the refrigerant cycle and freezes, it may interfere the start-up of the compressor.
- 2) If liquid refrigerant collects in the compressor, a failure in the compressor may occur.

The pre-heat control turns ON when the compressor temperature is 20°C or below. When the pre-heat control turns ON, the compressor is energized. (About 70 W)

Pre-heat control setting

<JK>

ON: To activate the pre-heat control, cut JK wire of the inverter P.C. board.

OFF: To deactivate the pre-heat control, solder JK wire of the inverter P.C. board.

(Refer to 11-6.1)

NOTE: When the inverter P.C. board is replaced, check the Jumper wires, and cut/solder them if necessary.

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
 MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD
 MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
 MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

11-1. CAUTIONS ON TROUBLESHOOTING

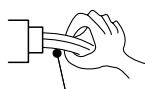
1. Before troubleshooting, check the following

- 1) Check the power supply voltage.
- 2) Check the indoor/outdoor connecting wire for miswiring.

2. Take care of the following during servicing

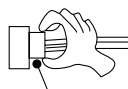
- 1) Before servicing the air conditioner, be sure to turn OFF the main unit first with the remote controller, and after confirming the horizontal vane is closed, turn OFF the breaker and/or disconnect the power plug.
- 2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the electronic control P.C. board.
- 3) When removing the electrical parts, be careful of the residual voltage of smoothing capacitor.
- 4) When removing the electronic control P.C. board, hold the edge of the board with care NOT to apply stress on the components.
- 5) When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.

<Incorrect>



Lead wiring

<Correct>



Housing point

3. Troubleshooting procedure

- 1) Check if the OPERATION INDICATOR lamp on the indoor unit is flashing on and off to indicate an abnormality.
To make sure, check how many times the OPERATION INDICATOR lamp is flashing on and off before starting service work.
- 2) Before servicing, check that the connector and terminal are connected properly.
- 3) When the electronic control P.C. board seems to be defective, check the copper foil pattern for disconnection and the components for bursting and discoloration.
- 4) Refer to 11-2 and 11-3.

11-2. FAILURE MODE RECALL FUNCTION

Outline of the function

This air conditioner can memorize the abnormal condition which has occurred once.

Even though LED indication listed on the troubleshooting check table (11-3.) disappears, the memorized failure details can be recalled.

This mode is very useful when the unit needs to be repaired for the abnormality which does not recur.

1. Flow chart of failure mode recall function for the indoor/outdoor unit

MSZ-GE25/33/35/42/50VA MSZ-GE60/71/80VA MSZ-GE60/71/80VAD
MSZ-GE35/50VA2 MSZ-GE80VA2
MSZ-GE25/35/42/50VAD

Operational procedure

The cause of abnormality cannot be found because the abnormality does not recur.

Setting up the failure mode recall function

Turn ON the power supply.

<Preparation of the remote controller>

① While pressing both OPERATION SELECT button and TOO COOL button (MSZ-GE25/33/35/42/50)/TEMP + button (MSZ-GE60/71/80) on the remote controller at the same time, press RESET button.

② First, release RESET button.

Hold down the other two buttons for another 3 seconds. Make sure that the indicators on the LCD screen shown in the right figure are all displayed. Then release the buttons.

Press OPERATE/STOP (ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit. ※1

※1. Regardless of normal or abnormal condition, a short beep is emitted once the signal is received.

Does the upper lamp of OPERATION INDICATOR lamp on the indoor unit blink at the interval of 0.5 seconds?

Blinks: Either indoor or outdoor unit is abnormal. Beep is emitted at the same timing as the blinking of The upper lamp of OPERATION INDICATOR lamp. ※2

No (OFF)

Indoor unit is normal.

But the outdoor unit might be abnormal because there are some abnormalities that can not be recalled with this way. Confirm if outdoor unit is abnormal according to the detailed outdoor unit failure mode recall function. (Refer to 11-2.2)

Judgment of indoor/outdoor abnormality

Yes (Blinks)

Before blinking, does the upper lamp of OPERATION INDICATOR lamp stay ON for 3 seconds?

Stays ON for 3 seconds (without beep): The outdoor unit is abnormal.

Yes

No

The indoor unit is abnormal.

Check the blinking pattern, and identify the abnormal point by referring to the indoor unit failure mode table. (Refer to indoor unit service manual.) Make sure to check at least two consecutive blinking cycles. ※2

The outdoor unit is abnormal.

Check the blinking pattern, and identify the abnormal point by referring to the outdoor unit failure mode table. (Refer to 11-2.3) Make sure to check at least two consecutive blinking cycles. ※3

Releasing the failure mode recall function

Release the failure mode recall function by the following procedures.
Turn OFF the power supply and turn it ON again.
Press RESET button of the remote controller.

Repair the failure parts.

Deleting the memorized abnormal condition

① After repairing the unit, recall the failure mode again according to "Setting up the failure mode recall function" mentioned above.

② Press OPERATE/STOP (ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit.

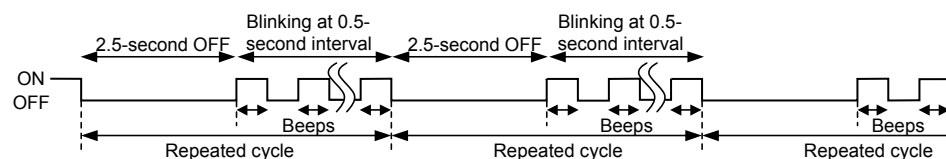
③ Press EMERGENCY OPERATION switch so that the memorized abnormal condition is deleted.

④ Release the failure mode recall function according to "Releasing the failure mode recall function" mentioned above.

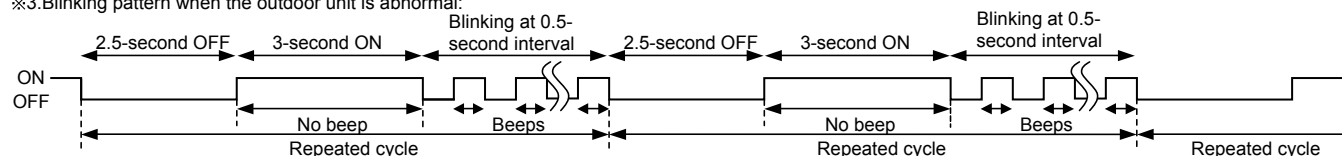
NOTE: 1. Make sure to release the failure mode recall function after it is set up, otherwise the unit cannot operate properly.

2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized.

※2. Blinking pattern when the indoor unit is abnormal:

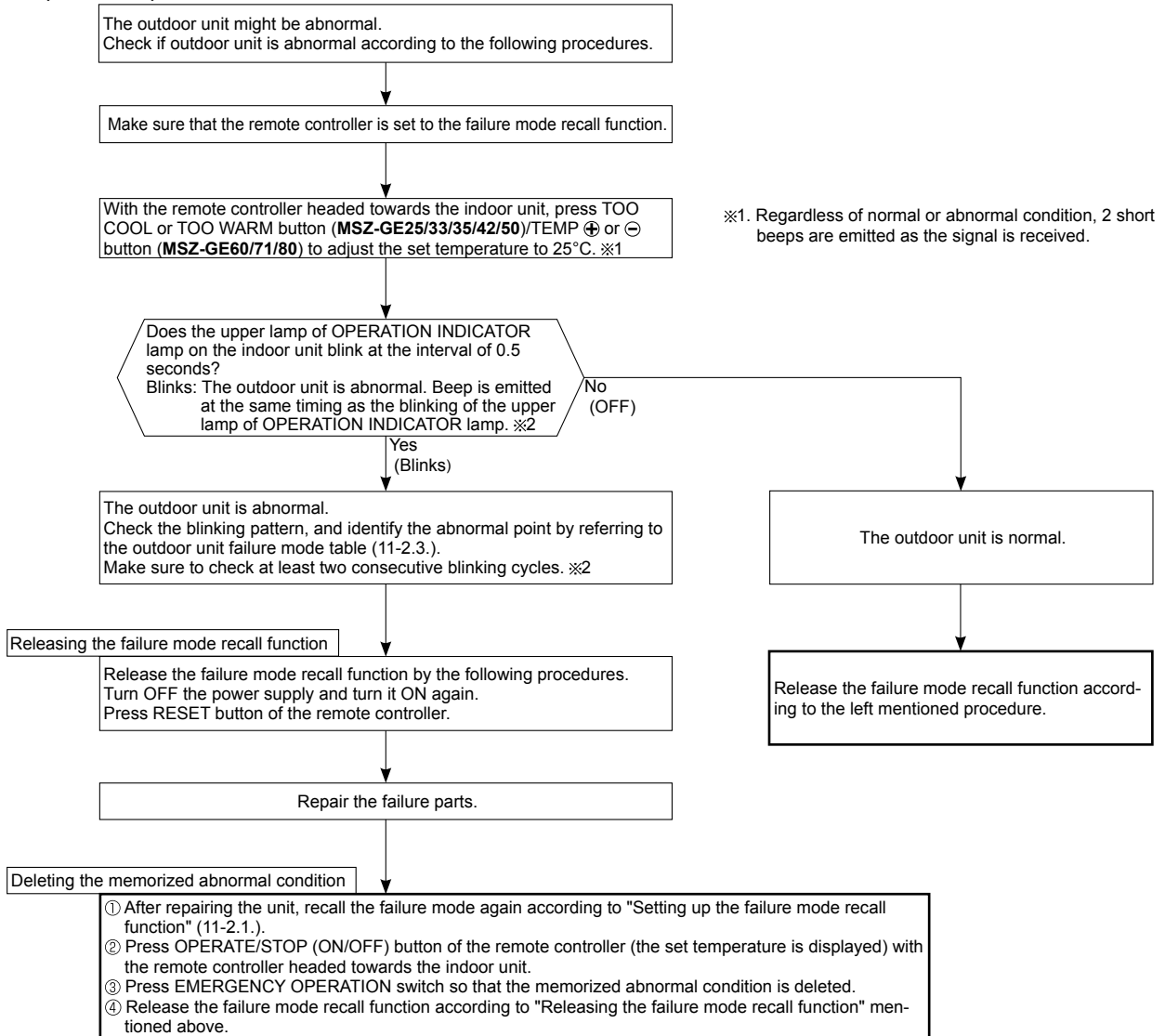


※3. Blinking pattern when the outdoor unit is abnormal:



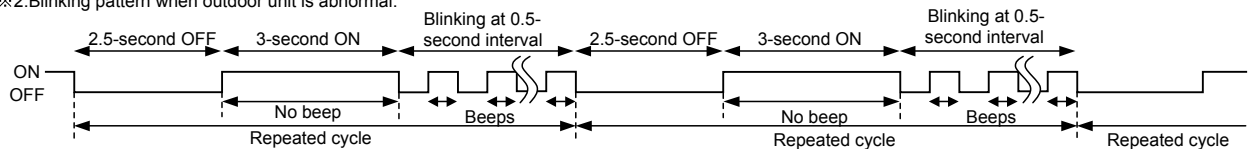
2. Flow chart of the detailed outdoor unit failure mode recall function

Operational procedure



NOTE: 1. Make sure to release the failure mode recall function after it is set up, otherwise the unit cannot operate properly.
2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized.

※2. Blinking pattern when outdoor unit is abnormal:



--

3. Outdoor unit failure mode table

The upper lamp of OPERATION INDICATOR lamp (Indoor unit)	Abnormal point (Failure mode / protection)	LED indication (Outdoor P.C. board)	Condition	Remedy	Indoor/outdoor unit failure mode recall function	Outdoor unit failure mode recall function
OFF	None (Normal)	—	—	—	—	—
1-time flash 2.5 seconds OFF	Indoor/outdoor communication, receiving error	—	Any signals from the inverter P.C. board cannot be received normally for 3 minutes.	•Refer to 11-5. ㉔ How to check miswiring and serial signal error.	○	○
	Indoor/outdoor communication, receiving error	—	Although the inverter P.C. board sends signal "0", signal "1" has been received 30 consecutive times.	•Refer to 11-5. ㉔ How to check miswiring and serial signal error.		
2-time flash 2.5 seconds OFF	Outdoor power system	—	Overcurrent protection cut-out operates 3 consecutive times within 1 minute after the compressor gets started.	•Reconnect connectors. •Refer to 11-5. ㉔ How to check inverter/compressor". •Check the stop valve.	○	○
3-time flash 2.5 seconds OFF	Discharge temperature thermistor	1-time flash every 2.5 seconds	Thermistor shorts or opens during compressor running.	•Refer to 11-5. ㉔ "Check of outdoor thermistors". Defective outdoor thermistors can be identified by checking the blinking pattern of LED.	○	○
	Defrost thermistor					
	Fin temperature thermistor	3-time flash 2.5 seconds OFF				
	P.C. board temperature thermistor	4-time flash 2.5 seconds OFF				
	Ambient temperature thermistor	2-time flash 2.5 seconds OFF				
	Outdoor heat exchanger temperature thermistor	—				
4-time flash 2.5 seconds OFF	Overcurrent	11-time flash 2.5 seconds OFF	Large current flows into the intelligent power module (IPM)/ IGBT module (IC700)/ power module (IPM). ※1.	•Reconnect compressor connector. •Refer to 11-5. ㉔ How to check inverter/compressor". •Check the stop valve.	—	○
	Compressor synchronous abnormality (Compressor start-up failure protection)	12-time flash 2.5 seconds OFF	Waveform of compressor current is distorted.	•Reconnect compressor connector. •Refer to 11-5. ㉔ How to check inverter/compressor".	—	○
5-time flash 2.5 seconds OFF	Discharge temperature	—	Temperature of discharge temperature thermistor exceeds 116°C, compressor stops. Compressor can restart if discharge temperature thermistor reads 100°C or less 3 minutes later.	•Check the refrigerant circuit and the refrigerant amount. •Refer to 11-5. ㉔ Check of LEV".	—	○
6-time flash 2.5 seconds OFF	High pressure	—	Temperature of indoor coil thermistor exceeds 70°C in HEAT mode. Temperature of outdoor heat exchanger temperature thermistor exceeds 70°C in COOL mode.	•Check the refrigerant circuit and the refrigerant amount. •Check the stop valve.	—	○
7-time flash 2.5 seconds OFF	Fin temperature/ P.C. board temperature	7-time flash 2.5 seconds OFF	Temperature of fin temperature thermistor on the inverter P.C. board exceeds 75 ~ 80°C, or temperature of P.C. board temperature thermistor on the inverter P.C. board exceeds 70 ~ 75°C.	•Check around the outdoor unit. •Check the outdoor unit air passage. •Refer to 11-5. ㉔ Check of outdoor fan motor".	—	○
8-time flash 2.5 seconds OFF	Outdoor fan motor	—	Outdoor fan has stopped 3 times in a row within 30 seconds after outdoor fan start-up.	•Refer to 11-5. ㉔ Check of outdoor fan motor". Refer to 11-5. ㉔ Check of inverter P.C. board".	—	○
9-time flash 2.5 seconds OFF	Nonvolatile memory data	5-time flash 2.5 seconds OFF	Nonvolatile memory data cannot be read properly.	•Replace the inverter P.C. board.	○	○
	Power module	6-time flash 2.5 seconds OFF	The interphase short circuit occurs in the output of the intelligent power module (IPM)/ IGBT module (IC700)/ power module (IPM). ※1. The compressor winding shorts circuit.	•Refer to 11-5. ㉔ How to check inverter/compressor".		
10-time flash 2.5 seconds OFF	Discharge temperature	—	Temperature of discharge temperature thermistor has been 50°C or less for 20 minutes.	•Refer to 11-5. ㉔ Check of LEV". •Check the refrigerant circuit and the refrigerant amount.	—	○

NOTE: Blinking patterns of this mode differ from the ones of Troubleshooting check table (11-3.).

※1.

Intelligent power module (IPM): **MUZ-GE25VA -A1**, **MUZ-GE35/50VA**
 IGBT module (IC700): **MUZ-GE60/71/80VAD**
 Power module (IPM): **Other models**

※1.

Intelligent power module (IPM): **MUZ-GE25VA -A1**, **MUZ-GE35/50VA**

IGBT module (IC700): **MUZ-GE60/71/80VAD**

Power module (IPM): **Other models**

3. Outdoor unit failure mode table

The upper lamp of OPERATION INDICATOR lamp (Indoor unit)	Abnormal point (Failure mode / protection)	LED indication (Outdoor P.C. board)	Condition	Remedy	Indoor/outdoor unit failure mode recall function	Outdoor unit failure mode recall function
11-time flash 2.5 seconds OFF	DC voltage	8-time flash 2.5 seconds OFF	DC voltage of inverter cannot be detected normally.	•Refer to 11-5.④ "How to check inverter/compressor".	—	○
	Each phase current of compressor	9-time flash 2.5 seconds OFF	Each phase current of compressor cannot be detected normally.			
12-time flash 2.5 seconds OFF	Overcurrent Compressor open-phase	10-time flash 2.5 seconds OFF	Large current flows into the intelligent power module (IPM)/ IGBT module (IC700)/ power module (IPM). ※1. The open-phase operation of compressor is detected. The interphase short circuit occurs in the output of the intelligent power module (IPM)/ IGBT module (IC700)/ power module (IPM). ※1.	•Reconnect compressor connector. •Refer to 11-5. ④ "How to check inverter/compressor".	—	○
14-time flash 2.5 seconds OFF	Stop valve (Closed valve)	14-time flash 2.5 seconds OFF	Closed valve is detected by compressor current.	•Check the stop valve	○	○
	4-way valve/ Pipe temperature (VAD)	16-time flash 2.5 seconds OFF	The 4-way valve does not work properly. The indoor coil thermistor detects an abnormal temperature.	•Check 4-way valve. •Replace inverter P.C. board.		

NOTE: Blinking patterns of this mode differ from the ones of Troubleshooting check table (11-3.).

11-3. TROUBLESHOOTING CHECK TABLE

No.	Symptom	LED indication	Abnormal point/ Condition	Condition	Remedy
1	Outdoor unit does not operate.	1-time flash every 2.5 seconds	Outdoor power system	Overcurrent protection cut-out operates 3 consecutive times within 1 minute after the compressor gets started.	•Reconnect connector of compressor. •Refer to 11-5.④ "How to check inverter/compressor". •Check the stop valve.
2			Outdoor thermistors	Discharge temperature thermistor, fin temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor, P.C. board temperature thermistor or ambient temperature thermistor shorts or opens during compressor running.	•Refer to 11-5.⑥ "Check of outdoor thermistors".
3			Outdoor control system	Nonvolatile memory data cannot be read properly. (The upper lamp of OPERATION INDICATOR lamp of the indoor unit lights up or flashes 7-time.)	•Replace the inverter P.C. board.
4		6-time flash 2.5 seconds OFF	Serial signal	The communication fails between the indoor and outdoor unit for 3 minutes.	•Refer to 11-5.⑧ "How to check miswiring and serial signal error."
5		11-time flash 2.5 seconds OFF	Stop valve/ Closed valve	Closed valve is detected by compressor current.	•Check the stop valve.
6		14-time flash 2.5 seconds OFF	Outdoor unit (Other abnormality)	Outdoor unit is defective.	•Refer to 11-2.2. "Flow chart of the detailed outdoor unit failure mode recall function".
7		16-time flash 2.5 seconds OFF (VAD)	4-way valve/ Pipe temperature	The 4-way valve does not work properly. The indoor coil thermistor detects an abnormal temperature.	•Refer to 11-5.⑨ "Check of R.V. coil". •Replace the inverter P.C. board.
8	'Outdoor unit stops and restarts 3 minutes later' is repeated.	2-time flash 2.5 seconds OFF	Overcurrent protection	Large current flows into the intelligent power module (IPM)/ IGBT module (IC700)/ power module (IPM). ※1.	•Reconnect the connector of the compressor. •Refer to 11-5.④ "How to check inverter/compressor". •Check the stop valve.
9		3-time flash 2.5 seconds OFF	Discharge temperature overheat protection	Temperature of discharge temperature thermistor exceeds 116°C, compressor stops. Compressor can restart if discharge temperature thermistor reads 100°C or less 3 minutes later.	•Check the refrigerant circuit and the refrigerant amount. •Refer to 11-5.⑩ "Check of LEV".
10		4-time flash 2.5 seconds OFF	Fin temperature /P.C. board temperature thermistor overheat protection	Temperature of fin temperature thermistor on the heat sink exceeds 75 ~ 80°C or temperature of P.C. board temperature thermistor on the inverter P.C. board exceeds 70 ~ 75°C.	•Check around the outdoor unit. •Check the outdoor unit air passage. •Refer to 11-5.⑪ "Check of outdoor fan motor".
11		5-time flash 2.5 seconds OFF	High pressure protection	Temperature of indoor coil thermistor exceeds 70°C in HEAT mode. Temperature of outdoor heat exchanger temperature thermistor exceeds 70°C in COOL mode.	•Check the refrigerant circuit and the refrigerant amount. •Check the stop valve.
12		8-time flash 2.5 seconds OFF	Compressor synchronous abnormality	The waveform of compressor current is distorted.	•Reconnect connector of compressor. •Refer to 11-5.④ "How to check inverter/compressor".
13		10-time flash 2.5 seconds OFF	Outdoor fan motor	Outdoor fan has stopped 3 times in a row within 30 seconds after outdoor fan start-up.	•Refer to 11-5.⑫ "Check of outdoor fan motor". •Refer to 11-5.⑬ "Check of inverter P.C. board."
14		12-time flash 2.5 seconds OFF	Each phase current of compressor	Each phase current of compressor cannot be detected normally.	•Refer to 11-5.④ "How to check inverter/compressor".
15		13-time flash 2.5 seconds OFF	DC voltage	DC voltage of inverter cannot be detected normally.	•Refer to 11-5.④ "How to check inverter/compressor".

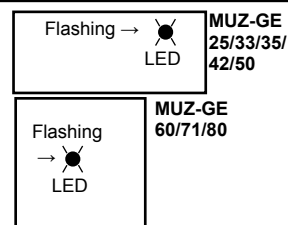
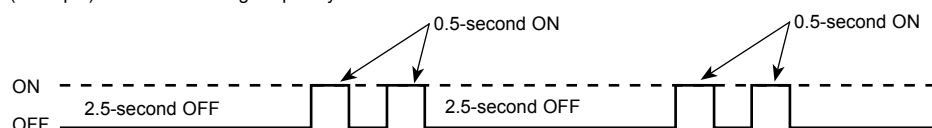
11-3. TROUBLESHOOTING CHECK TABLE

No.	Symptom	LED indication	Abnormal point/ Condition	Condition	Remedy
16	Outdoor unit operates.	1-time flash 2.5 seconds OFF	Frequency drop by current protection	Current from power outlet is nearing breaker capacity.	<ul style="list-style-type: none"> The unit is normal, but check the following. •Check if the indoor filters are clogged. •Check if the refrigerant is short. •Check if the indoor/outdoor unit air circulation is short cycled.
17		3-time flash 2.5 seconds OFF	Frequency drop by high pressure protection	Temperature of indoor coil thermistor exceeds 55°C in HEAT mode, compressor frequency lowers.	
18			Frequency drop by defrosting in COOL mode	Indoor coil thermistor reads 8°C or less in COOL mode, compressor frequency lowers.	
19	Outdoor unit operates.	4-time flash 2.5 seconds OFF	Frequency drop by discharge temperature protection	Temperature of discharge temperature thermistor exceeds 111°C, compressor frequency lowers.	<ul style="list-style-type: none"> •Check the refrigerant circuit and the refrigerant amount. •Refer to 11-5.ⓧ "Check of LEV". •Refer to 11-5.⓪ "Check of outdoor thermistors".
20		7-time flash 2.5 seconds OFF	Low discharge temperature protection	Temperature of discharge temperature thermistor has been 50°C or less for 20 minutes.	
21			MUZ-GE25/33/35/42/50 PAM protection PAM: Pulse Amplitude Modulation	The overcurrent flows into IGBT (Insulated Gate Bipolar transistor: TR821) or the bus-bar voltage reaches 320 V or more, PAM stops and restarts.	
			MUZ-GE60/71/80 Zero cross detecting circuit	Zero cross signal cannot be detected.	<ul style="list-style-type: none"> This is not malfunction. PAM protection will be activated in the following cases: 1 Instantaneous power voltage drop. (Short time power failure) 2 When the power supply voltage is high.
			Inverter check mode	The connector of compressor is disconnected, inverter check mode starts.	

NOTE: 1. The location of LED is illustrated at the right figure. Refer to 11-6.1.
2. LED is lighted during normal operation.

Inverter P.C. board

The flashing frequency shows the number of times the LED blinks after every 2.5-second OFF.
(Example) When the flashing frequency is "2".



11-4. TROUBLE CRITERION OF MAIN PARTS

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD
MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

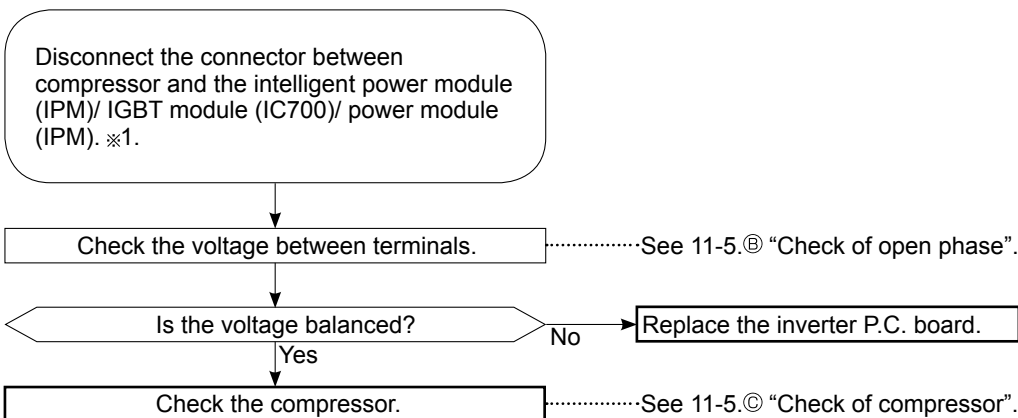
Part name	Check method and criterion	Figure																																			
Defrost thermistor (RT61) Fin temperature thermistor (RT64) Ambient temperature thermistor (RT65) Outdoor heat exchanger temperature thermistor (RT68)	Measure the resistance with a tester. Refer to 11-6. "Test point diagram and voltage", 1. "Inverter P.C. board", for the chart of thermistor.																																				
Discharge temperature thermistor (RT62)	Measure the resistance with a tester. Before measurement, hold the thermistor with your hands to warm it up. Refer to 11-6. "Test point diagram and voltage", 1. "Inverter P.C. board", for the chart of thermistor.																																				
Compressor	Measure the resistance between terminals using a tester. (Temperature: -10 ~ 40°C) <table><tr><td></td><td colspan="6">Normal (Ω)</td></tr><tr><td></td><td>MUZ-GE25VA-A1</td><td>MUZ-GE25VA-A2 MUZ-GE25VAD</td><td>MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2-A1</td><td>MUZ-GE35VA2-A2 MUZ-GE35VAD</td><td>MUZ-GE42/50/60VA MUZ-GE50VA2 MUZ-GE42/50/60VAD</td><td>MUZ-GE71/80VA MUZ-GE80VA2 MUZ-GE71/80VAD</td></tr><tr><td>U-V</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>U-W</td><td>1.36 ~ 1.93</td><td>1.22 ~ 1.74</td><td>1.52 ~ 2.17</td><td>1.36 ~ 1.93</td><td>0.78 ~ 1.11</td><td>0.87 ~ 1.18</td></tr><tr><td>V-W</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>		Normal (Ω)							MUZ-GE25VA-A1	MUZ-GE25VA-A2 MUZ-GE25VAD	MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2-A1	MUZ-GE35VA2-A2 MUZ-GE35VAD	MUZ-GE42/50/60VA MUZ-GE50VA2 MUZ-GE42/50/60VAD	MUZ-GE71/80VA MUZ-GE80VA2 MUZ-GE71/80VAD	U-V							U-W	1.36 ~ 1.93	1.22 ~ 1.74	1.52 ~ 2.17	1.36 ~ 1.93	0.78 ~ 1.11	0.87 ~ 1.18	V-W							
	Normal (Ω)																																				
	MUZ-GE25VA-A1	MUZ-GE25VA-A2 MUZ-GE25VAD	MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2-A1	MUZ-GE35VA2-A2 MUZ-GE35VAD	MUZ-GE42/50/60VA MUZ-GE50VA2 MUZ-GE42/50/60VAD	MUZ-GE71/80VA MUZ-GE80VA2 MUZ-GE71/80VAD																															
U-V																																					
U-W	1.36 ~ 1.93	1.22 ~ 1.74	1.52 ~ 2.17	1.36 ~ 1.93	0.78 ~ 1.11	0.87 ~ 1.18																															
V-W																																					
Outdoor fan motor	Measure the resistance between lead wires using a tester. (Temperature: -10 ~ 40°C) <table><tr><td>Color of lead wire</td><td colspan="3">Normal (Ω)</td></tr><tr><td></td><td>MUZ-GE25/33/35VA MUZ-GE35VA2 MUZ-GE25/35VAD</td><td>MUZ-GE42VA MUZ-GE42VAD</td><td>MUZ-GE50/60/71/80VA MUZ-GE50/80VA2 MUZ-GE50/60/71/80VAD</td></tr><tr><td>RED – BLK</td><td></td><td></td><td></td></tr><tr><td>BLK – WHT</td><td>29 ~ 42</td><td>11 ~ 16</td><td>12 ~ 17</td></tr><tr><td>WHT – RED</td><td></td><td></td><td></td></tr></table>	Color of lead wire	Normal (Ω)				MUZ-GE25/33/35VA MUZ-GE35VA2 MUZ-GE25/35VAD	MUZ-GE42VA MUZ-GE42VAD	MUZ-GE50/60/71/80VA MUZ-GE50/80VA2 MUZ-GE50/60/71/80VAD	RED – BLK				BLK – WHT	29 ~ 42	11 ~ 16	12 ~ 17	WHT – RED																			
Color of lead wire	Normal (Ω)																																				
	MUZ-GE25/33/35VA MUZ-GE35VA2 MUZ-GE25/35VAD	MUZ-GE42VA MUZ-GE42VAD	MUZ-GE50/60/71/80VA MUZ-GE50/80VA2 MUZ-GE50/60/71/80VAD																																		
RED – BLK																																					
BLK – WHT	29 ~ 42	11 ~ 16	12 ~ 17																																		
WHT – RED																																					
R. V. coil (21S4)	Measure the resistance using a tester. (Temperature: -10 ~ 40°C) <table><tr><td>Normal (kΩ)</td></tr><tr><td>1.19 ~ 1.78</td></tr></table>	Normal (kΩ)	1.19 ~ 1.78																																		
Normal (kΩ)																																					
1.19 ~ 1.78																																					
Expansion valve coil (LEV)	Measure the resistance using a tester. (Temperature: -10 ~ 40°C) MUZ-GE25/33/35/42/50VA, MUZ-GE35/50VA2, MUZ-GE25/35/42/50VAD <table><tr><td>Color of lead wire</td><td>Normal (Ω)</td></tr><tr><td>WHT – RED</td><td></td></tr><tr><td>RED – ORN</td><td>37 ~ 54</td></tr><tr><td>YLW – BRN</td><td></td></tr><tr><td>BRN – BLU</td><td></td></tr></table> Measure the resistance using a tester. (Temperature: -10 ~ 40°C) MUZ-GE60/71/80VA, MUZ-GE80VA2, MUZ-GE60/71/80VAD <table><tr><td>Color of lead wire</td><td>Normal (Ω)</td></tr><tr><td>RED – ORN</td><td></td></tr><tr><td>RED – WHT</td><td>37 ~ 54</td></tr><tr><td>RED – BLU</td><td></td></tr><tr><td>RED – YLW</td><td></td></tr></table>	Color of lead wire	Normal (Ω)	WHT – RED		RED – ORN	37 ~ 54	YLW – BRN		BRN – BLU		Color of lead wire	Normal (Ω)	RED – ORN		RED – WHT	37 ~ 54	RED – BLU		RED – YLW																	
Color of lead wire	Normal (Ω)																																				
WHT – RED																																					
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Color of lead wire	Normal (Ω)																																				
RED – ORN																																					
RED – WHT	37 ~ 54																																				
RED – BLU																																					
RED – YLW																																					

11-5. TROUBLESHOOTING FLOW

Ⓐ How to check inverter/compressor

※1.

Intelligent power module (IPM): **MUZ-GE25VA -A1**, **MUZ-GE35/50VA**
 IGBT module (IC700): **MUZ-GE60/71/80VAD**
 Power module (IPM): **Other models**



Ⓑ Check of open phase

- With the connector between the compressor and the intelligent power module (IPM)/ IGBT module (IC700)/ power module (IPM) disconnected, activate the inverter and check if the inverter is normal by measuring **the balance of voltage** between the terminals. ※1.

Output voltage is 50 - 130 V. (The voltage may differ according to the tester.)

<< Operation method >>

Start cooling or heating operation by pressing EMERGENCY OPERATION switch on the indoor unit. (TEST RUN OPERATION: Refer to 8-3.)

<< Measurement point >>

At 3 points

BLK (U)-WHT (V)

BLK (U)-RED (W)

WHT(V)-RED (W)

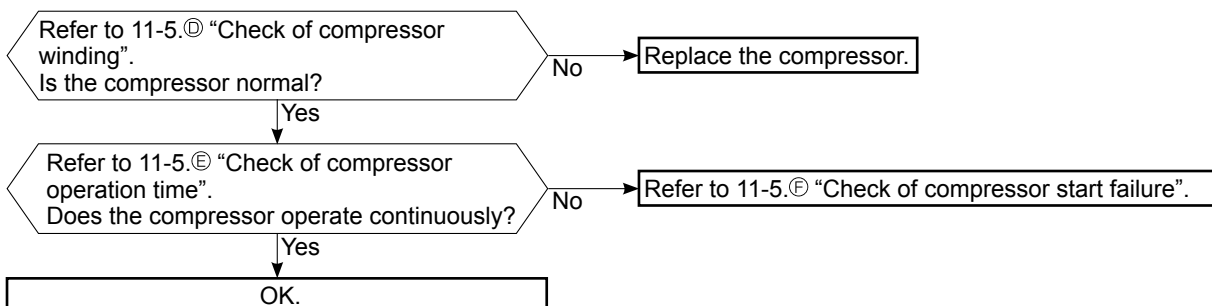
Measure AC voltage between the lead wires at 3 points.

NOTE: 1. Output voltage varies according to power supply voltage.

2. Measure the voltage by analog type tester.

3. During this check, LED of the inverter P.C. board flashes 9 times. (Refer to 11-6.1.)

Ⓒ Check of compressor



※1.
 Intelligent power module (IPM): **MUZ-GE25VA** -[A1], **MUZ-GE35/50VA**
 IGBT module (IC700): **MUZ-GE60/71/80VAD**
 Power module (IPM): **Other models**

D Check of compressor winding

- Disconnect the connector between the compressor and the intelligent power module (IPM)/ IGBT module (IC700)/ power module (IPM) , and measure the resistance between the compressor terminals. ※1.

<<Measurement point>>

At 3 points

BLK-WHT

BLK-RED

WHT-RED

※ Measure the resistance between the lead wires at 3 points.

<<Judgement>>

Refer to 11-4.

0 [Ω]Abnormal [short]

Infinite [Ω]Abnormal [open]

NOTE: Be sure to zero the ohmmeter before measurement.

E Check of compressor operation time

- Connect the compressor and activate the inverter. Then measure the time until the inverter stops due to over current.

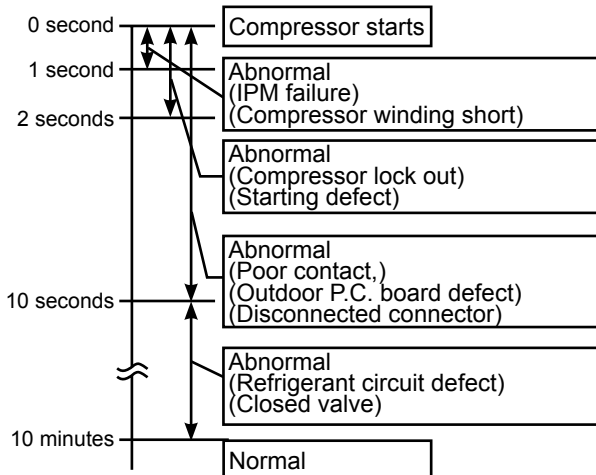
<<Operation method>>

Start heating or cooling operation by pressing EMERGENCY OPERATION switch on the indoor unit. (TEST RUN OPERATION: Refer to 8-3.)

<<Measurement>>

Measure the time from the start of compressor to the stop of compressor due to overcurrent.

<<Judgement>>



F Check of compressor start failure

Confirm that ①~④ is normal.

•Electrical circuit check

①. Contact of the compressor connector

②. Output voltage of inverter P.C. board and balance of them (See 11-5.⑥)

③. Direct current voltage between DB61(+) and (-) (**MUZ-GE25/33/35/42/50/** JP715(+)) and JP30(-) (**MUZ-GE60/71/80**) on the inverter P.C. board

④. Voltage between outdoor terminal block S1-S2

Does the compressor run for 10 seconds or more after it starts?

Yes

Check the refrigerant circuit.
Check the stop valve.

No

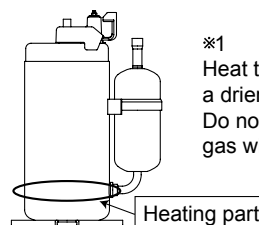
After the compressor is heated with a drier,
does the compressor start? ※1

No

Replace the compressor.

Yes

Compressor start failure. Activate pre-heat control.
(Refer to 10-2. "PRE-HEAT CONTROL SETTING")



※1
 Heat the compressor with
 a drier for about 20 minutes.
 Do not recover refrigerant
 gas while heating.

G Check of outdoor thermistors

Disconnect the connector of thermistor in the outdoor P.C. board (see below table), and measure the resistance of thermistor.

Is the resistance of thermistor normal?
(Refer to 11-6.1.)

No

Replace the thermistor except RT64.
When RT64 is abnormal, replace the inverter P.C. board.

Yes

Reconnect the connector of thermistor.
Turn ON the power supply and press EMERGENCY OPERATION switch.

Does the unit operate for 10 minutes or more
without showing thermistor abnormality?

No

Replace the inverter P.C. board.

Yes

OK. (Cause is poor contact.)

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD

Thermistor	Symbol	Connector, Pin No.	Board
Defrost	RT61	Between CN641 pin1 and pin2	Inverter P.C. board
Discharge temperature	RT62	Between CN641 pin3 and pin4	
Fin temperature	RT64	Between CN642 pin1 and pin2	
Ambient temperature	RT65	Between CN643 pin1 and pin2	
Outdoor heat exchanger temperature	RT68	Between CN644 pin1 and pin3	

MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

Thermistor	Symbol	Connector, Pin No.	Board
Defrost	RT61	Between CN671 pin1 and pin2	Inverter P.C. board
Discharge temperature	RT62	Between CN671 pin3 and pin4	
Fin temperature	RT64	Between CN673 pin1 and pin2	
Ambient temperature	RT65	Between CN672 pin1 and pin2	
Outdoor heat exchanger temperature	RT68	Between CN671 pin5 and pin6	

H Check of R.V. coil

※ First of all, measure the resistance of R.V. coil to check if the coil is defective. Refer to 11-4.

※ In case CN721 (MUZ-GE25/33/35/42/50)/CN602 (MUZ-GE60/71/80) is disconnected or R.V. coil is open, voltage is generated between the terminal pins of the connector although no signal is being transmitted to R.V. coil. Check if CN721 (MUZ-GE25/33/35/42/50)/CN602 (MUZ-GE60/71/80) is connected.

Unit operates COOL mode even if it is set to HEAT mode.

Disconnect connector between the compressor and the intelligent power module.
Turn ON the power supply and press EMERGENCY OPERATION switch twice (HEAT mode).

Is there 230 VAC between
CN721 (MUZ-GE25/33/35/42/50)/
CN602(MUZ-GE60/71/80) ① and ② on
the inverter P.C. board 3 minutes after the
power supply is turned ON?

No

Replace the inverter
P.C. board.

Yes

Replace the 4-way valve.

Unit operates HEAT mode even if it is set to COOL mode.

Disconnect connector between the compressor and the intelligent power module.
Turn ON the power supply and press EMERGENCY OPERATION switch once (COOL mode).

Is there 230 VAC between
CN721 (MUZ-GE25/33/35/42/50)/
CN602(MUZ-GE60/71/80) ① and ② on the
inverter P.C. board 3 minutes after the
power supply is turned ON?

Yes

Replace the inverter
P.C. board.

No

Replace the 4-way valve.

① Check of outdoor fan motor

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD

Disconnect CN932 from the inverter P.C. board, and measure the resistance of the outdoor fan motor.

Is the resistance of outdoor fan motor normal?
 (Refer to 11-4.)

No

Replace the outdoor fan motor.

Yes

Replace the inverter P.C. board.

MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

Disconnect the connectors CN931 and CN932 from the inverter P.C. board.
 Check the connection between the connector CN931 and CN932.

Is the resistance between each terminal of outdoor fan motor normal?
 (Refer to 11-4.)

Yes

Disconnect CN932 from the inverter P.C. board, and turn on the power supply.

Rotate the outdoor fan motor manually and measure the voltage of CN931.
 Between 1(+) and 5(-)
 Between 2(+) and 5(-)
 Between 3(+) and 5(-)

(Fixed to either 5 or 0 VDC)

No

Does the voltage between each terminal become 5 and 0 VDC repeatedly?

Yes

No

Does the outdoor fan motor rotate smoothly?

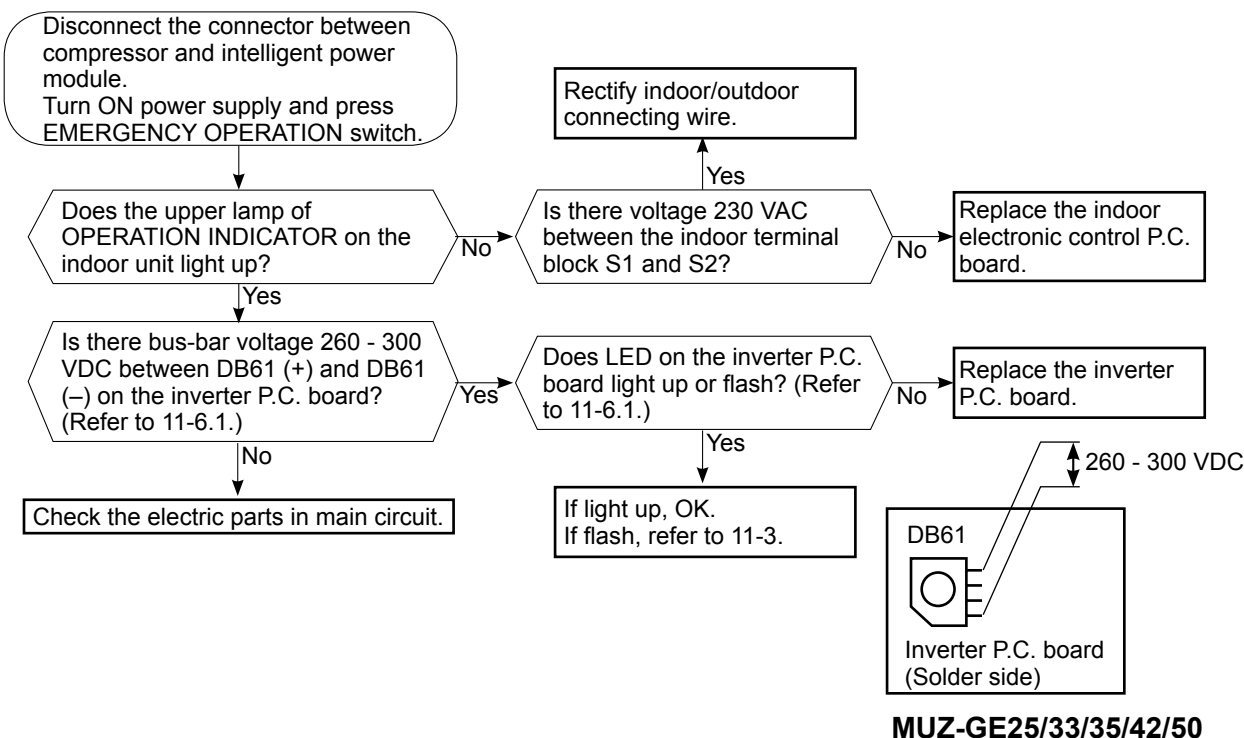
Yes

Replace the outdoor fan motor.

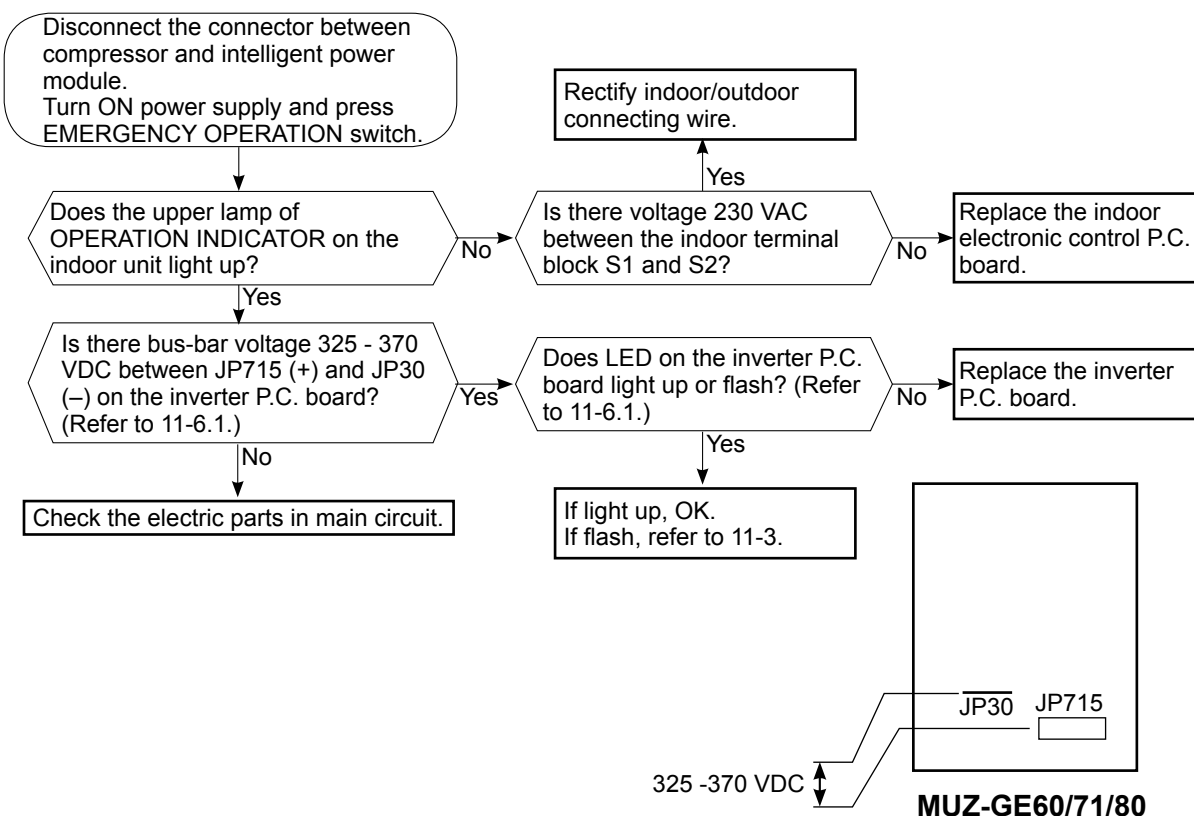
Replace the inverter P.C. board.

J Check of power supply

MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD



MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD



K Check of LEV (Expansion valve)

MSZ-GE25/33/35/42/50VA MSZ-GE60/71/80VA MSZ-GE60/71/80VAD
MSZ-GE35/50VA2 MSZ-GE80VA2
MSZ-GE25/35/42/50VAD

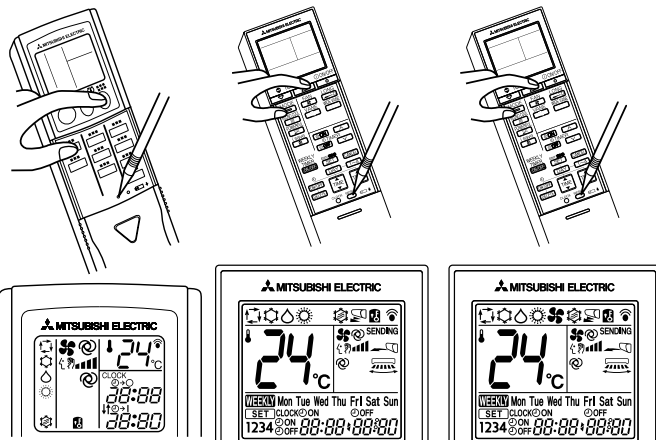
Turn ON the power supply.

<Preparation of the remote controller>

① While pressing both OPERATION SELECT button and TOO COOL button (**MSZ-GE25/33/35/42/50/**) TEMP \oplus button (**MSZ-GE60/71/80VA**) on the remote controller at the same time, press RESET button.

② First, release RESET button.

Hold down the other two buttons for another 3 seconds. Make sure that the indicators on the LCD screen shown in the right figure are all displayed. Then release the buttons.



Press OPERATE/STOP (ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit. ※1

Expansion valve operates in full-opening direction.

Do you hear the expansion valve "click, click....."?
Do you feel the expansion valve vibrate on touching it?

Yes

OK

※1. Regardless of normal or abnormal condition, a short beep is emitted once the signal is received.

No

Is LEV coil properly fixed to the expansion valve?

No

Properly fix the LEV coil to the expansion valve.

Yes

Does the resistance of LEV coil have the characteristics? (Refer to 11-4.)

Yes

Measure each voltage between connector pins of CN724 on the inverter P.C. board.

1. Pin③(-) — Pin①(+)
2. Pin④(-) — Pin①(+)
3. Pin⑤(-) — Pin①(+)
4. Pin⑥(-) — Pin①(+)

Is there about 3 ~ 5 VAC between each?

NOTE: Measure the voltage with an analog tester.

Yes

Replace the expansion valve.

No

Replace the inverter P.C. board.

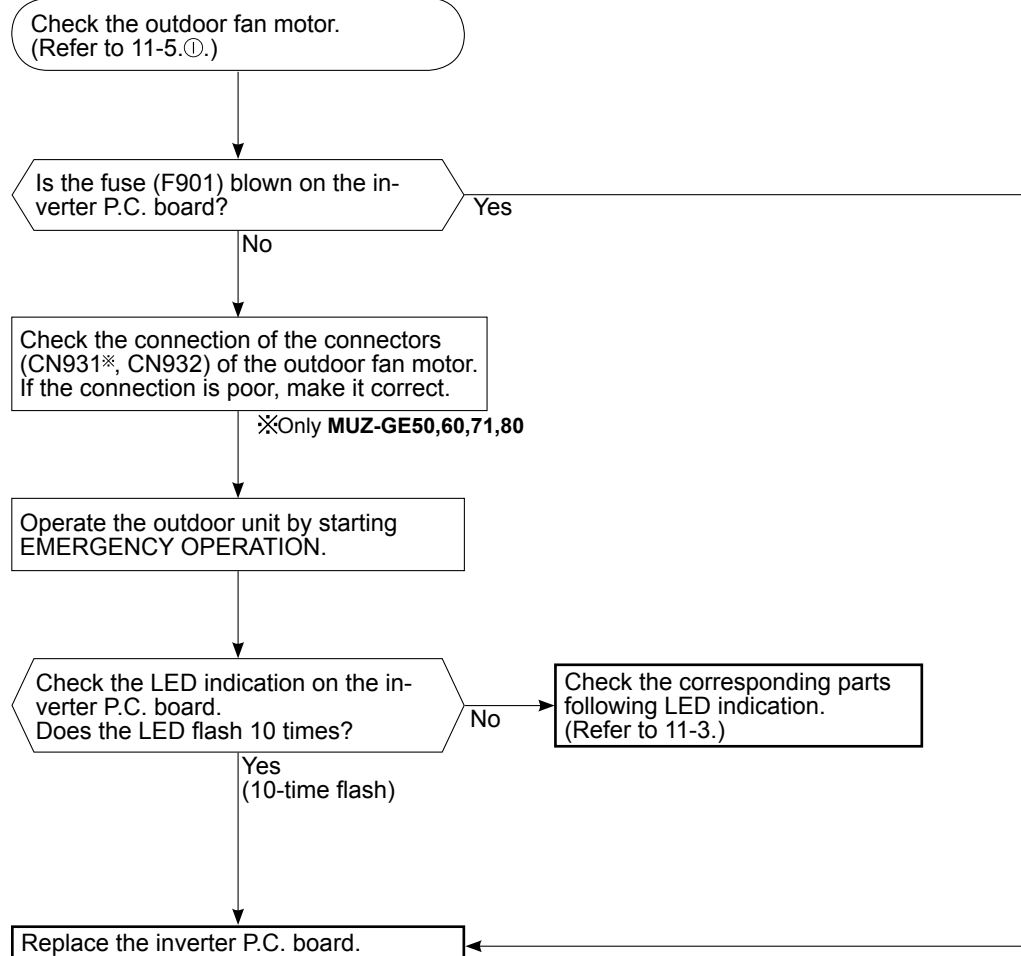
No

Replace the LEV coil.

NOTE: After check of LEV, do the undermentioned operations.

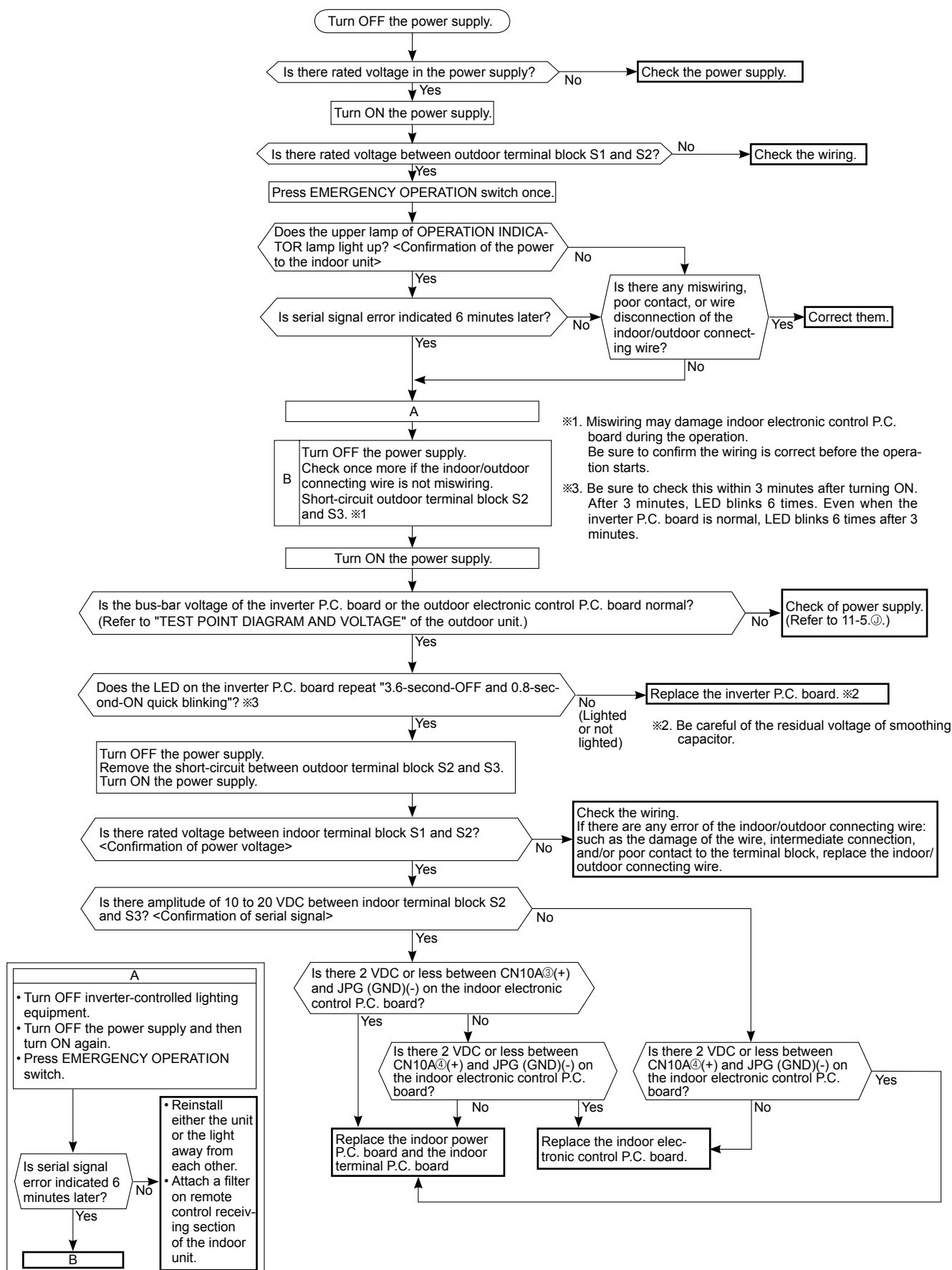
1. Turn OFF the power supply and turn it ON again.
2. Press RESET button on the remote controller.

L Check of inverter P.C. board

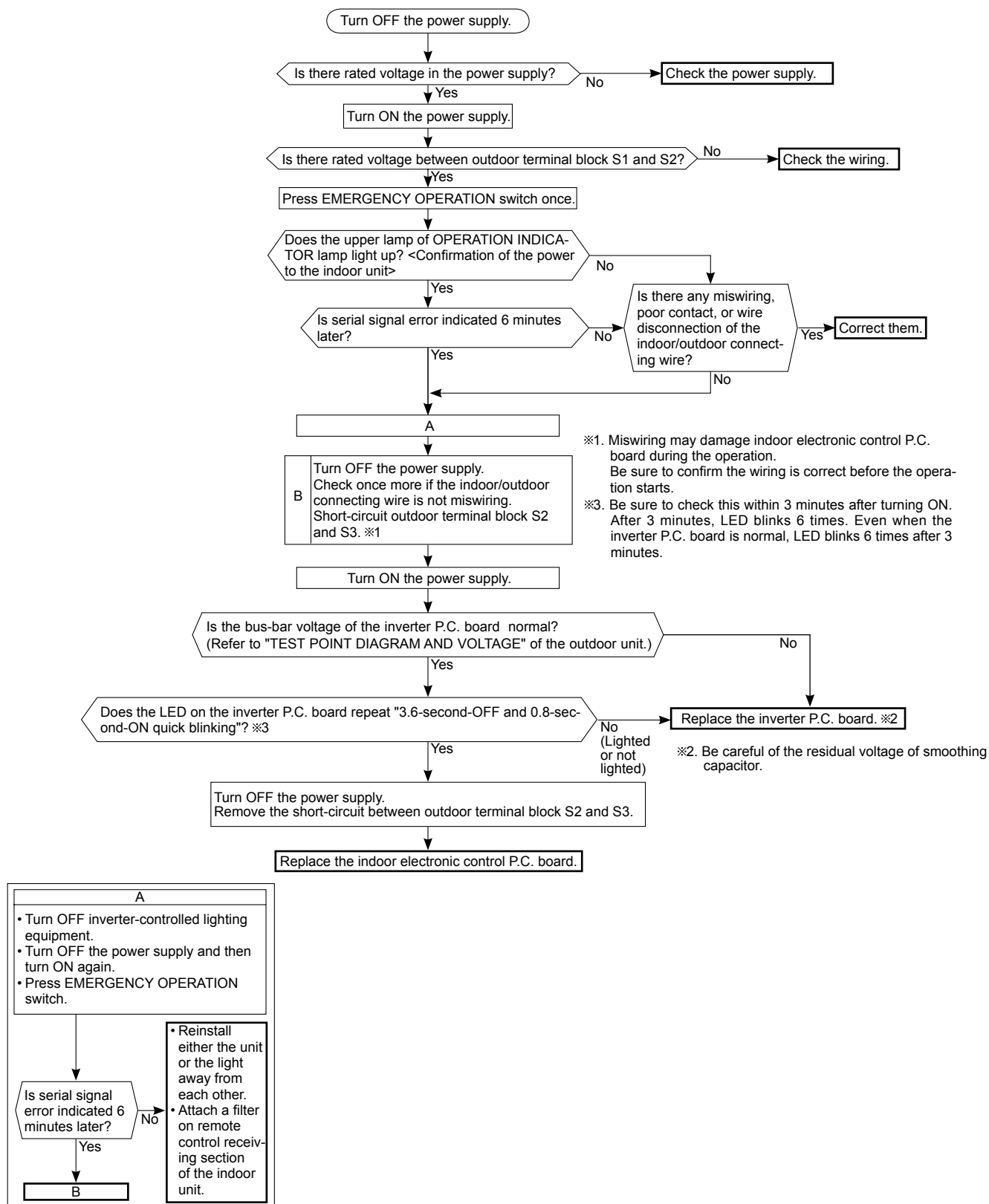


M How to check miswiring and serial signal error

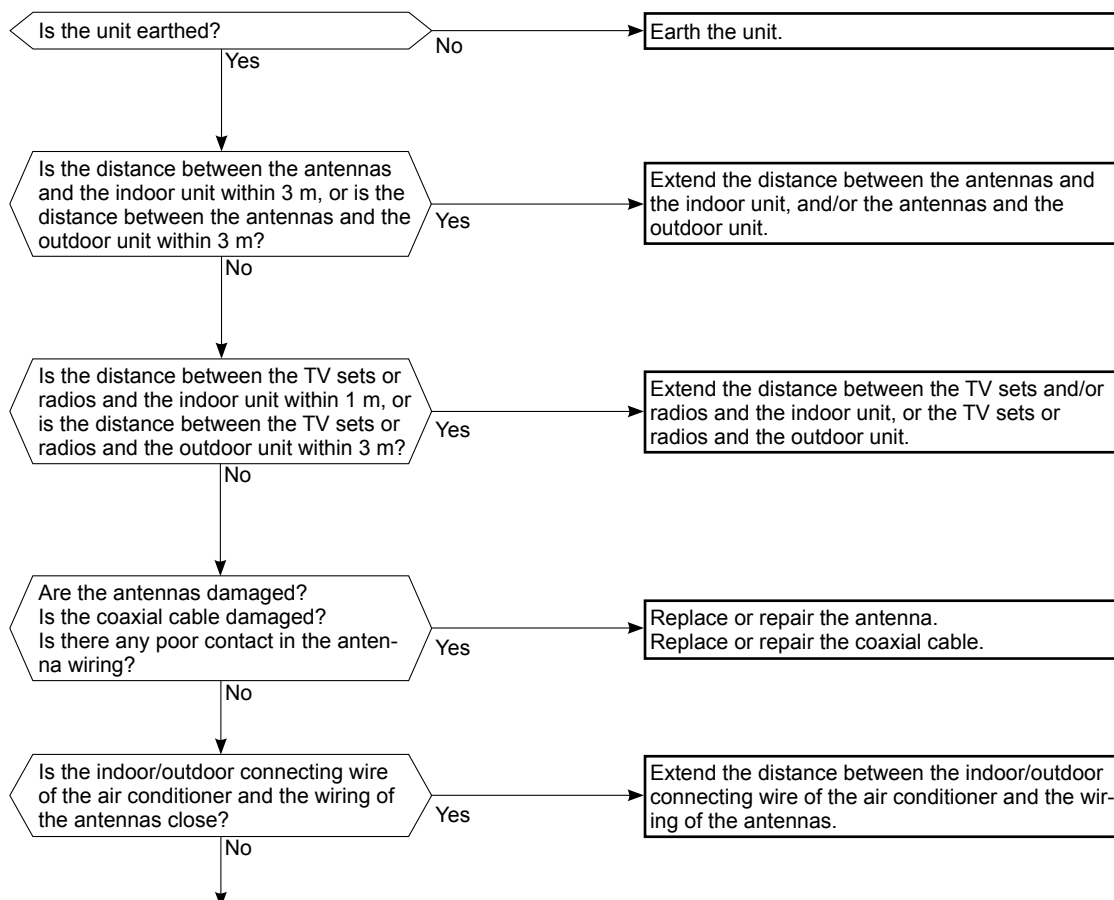
MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD
 MUZ-GE42VA MUZ-GE42VAD MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD



**MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD**



N Electromagnetic noise enters into TV sets or radios



Even if all of the above conditions are fulfilled, the electromagnetic noise may enter, depending on the electric field strength or the installation condition (combination of specific conditions such as antennas or wiring).

Check the following before asking for service.

1. Devices affected by the electromagnetic noise
TV sets, radios (FM/AM broadcast, shortwave)
2. Channel, frequency, broadcast station affected by the electromagnetic noise
3. Channel, frequency, broadcast station unaffected by the electromagnetic noise
4. Layout of:
indoor/outdoor unit of the air conditioner, indoor/outdoor wiring, earth wire, antennas, wiring from antennas, receiver
5. Electric field intensity of the broadcast station affected by the electromagnetic noise
6. Presence or absence of amplifier such as booster
7. Operation condition of air conditioner when the electromagnetic noise enters in
 - 1) Turn OFF the power supply once, and then turn ON the power supply. In this situation, check for the electromagnetic noise.
 - 2) Within 3 minutes after turning ON the power supply, press OPERATE/STOP (ON/OFF) button on the remote controller for power ON, and check for the electromagnetic noise.
 - 3) After a short time (3 minutes later after turning ON), the outdoor unit starts running. During operation, check for the electromagnetic noise.
 - 4) Press OPERATE/STOP (ON/OFF) button on the remote controller for power OFF, when the outdoor unit stops but the indoor/outdoor communication still runs on. In this situation, check for the electromagnetic noise.

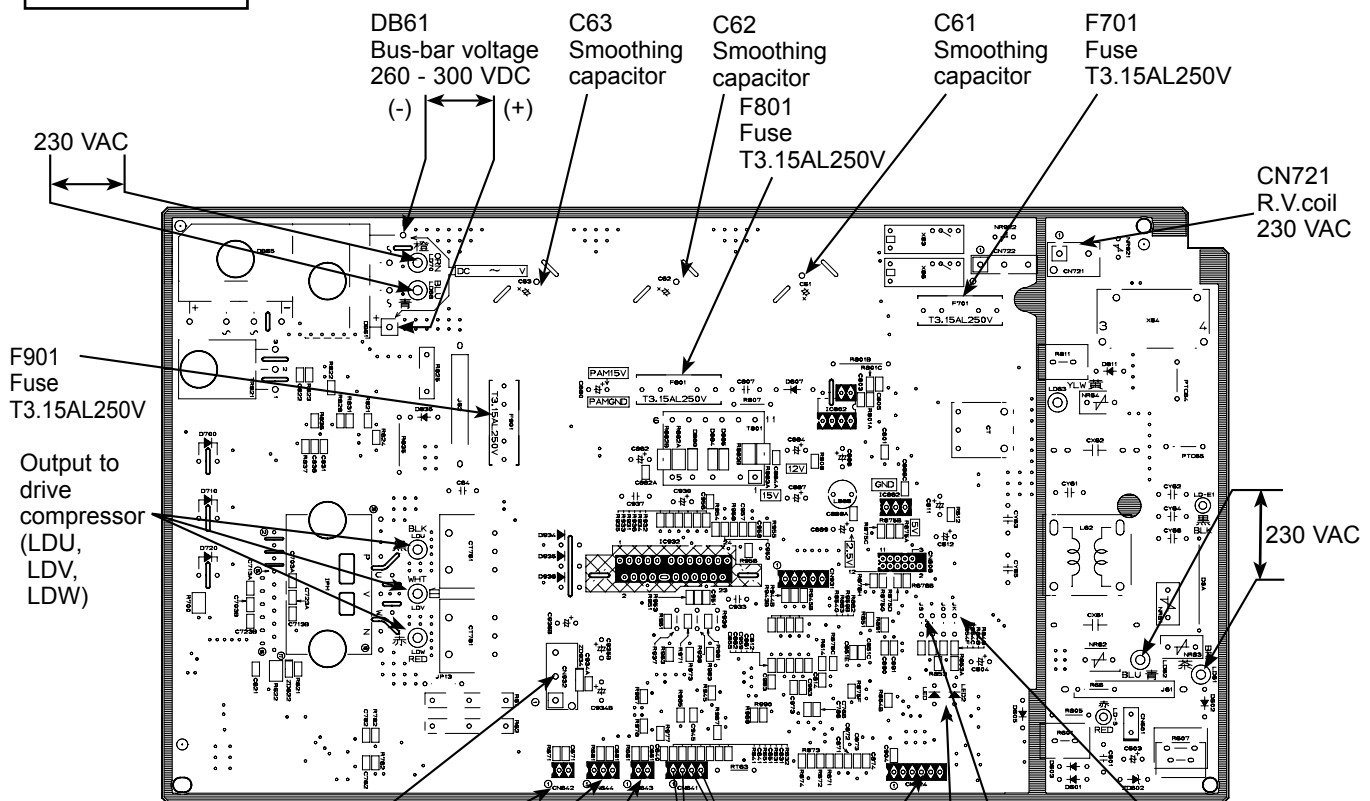
11-6. TEST POINT DIAGRAM AND VOLTAGE

1. Inverter P.C. board

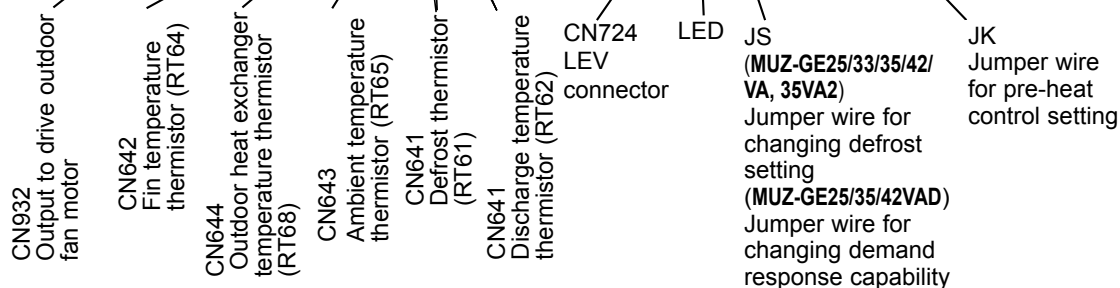
MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA

MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD MUZ-GE42VA MUZ-GE42VAD

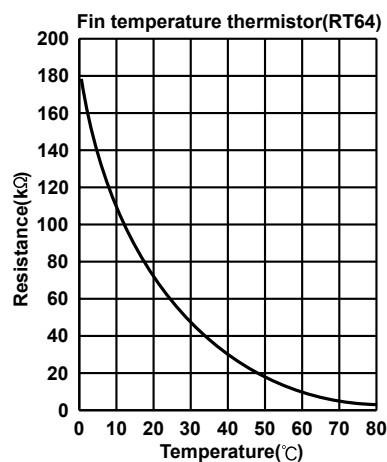
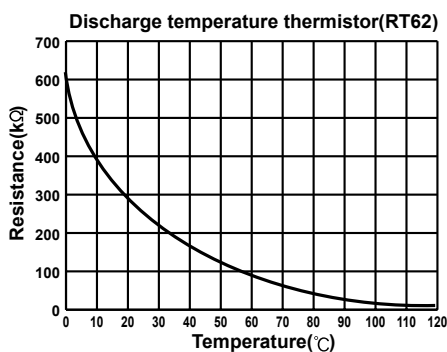
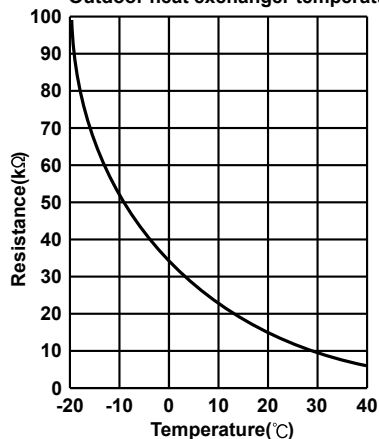
Back side of unit



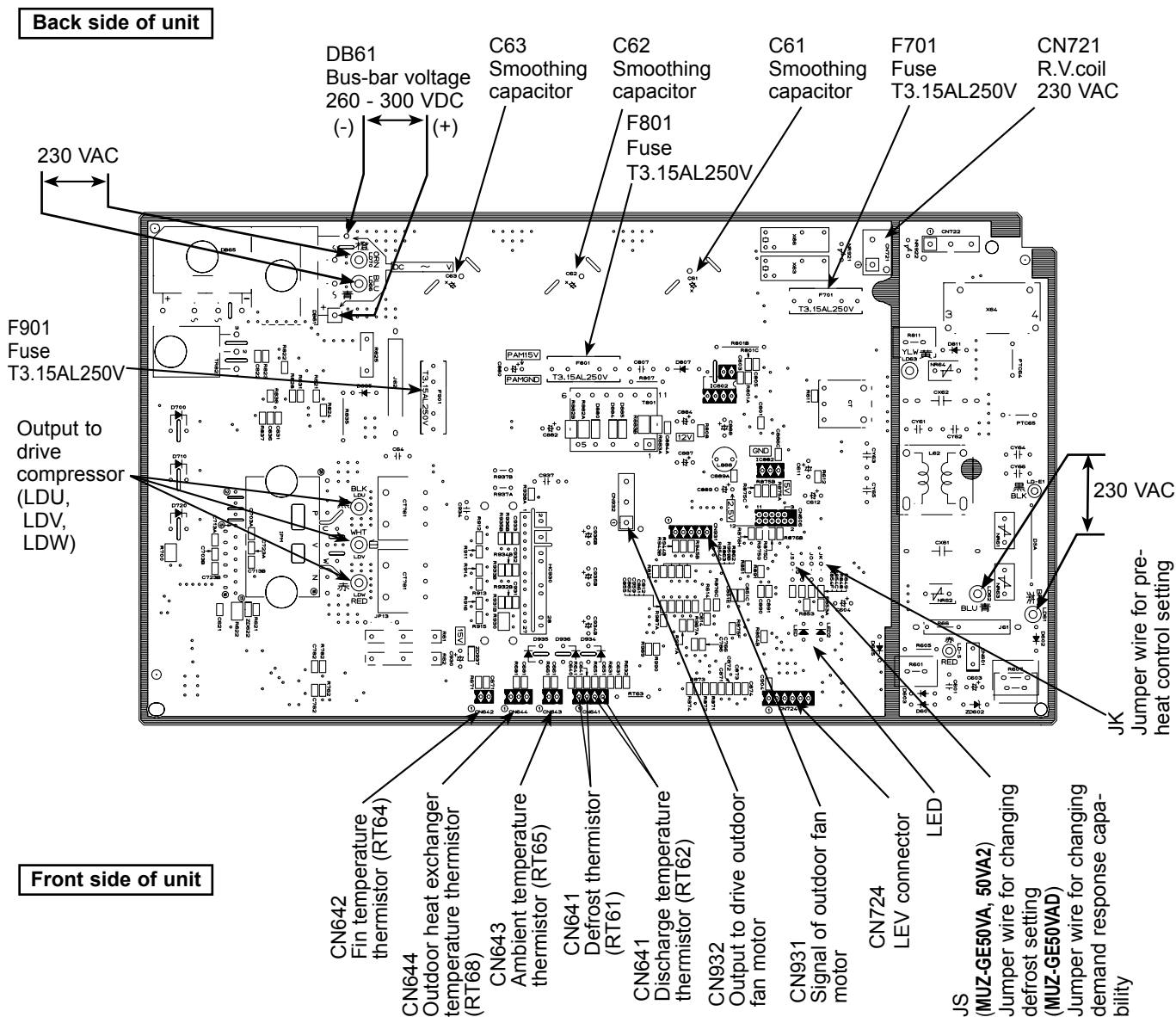
Front side of unit



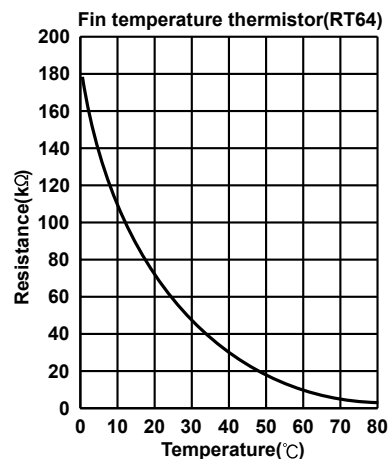
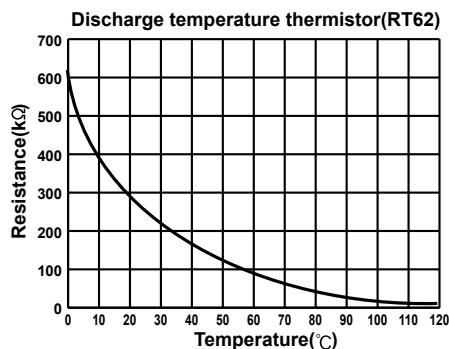
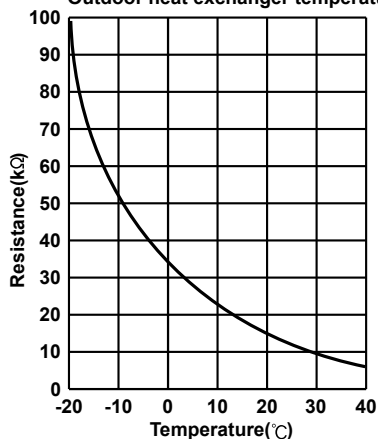
Defrost thermistor(RT61)
Ambient temperature thermistor(RT65)
Outdoor heat exchanger temperature thermistor(RT68)



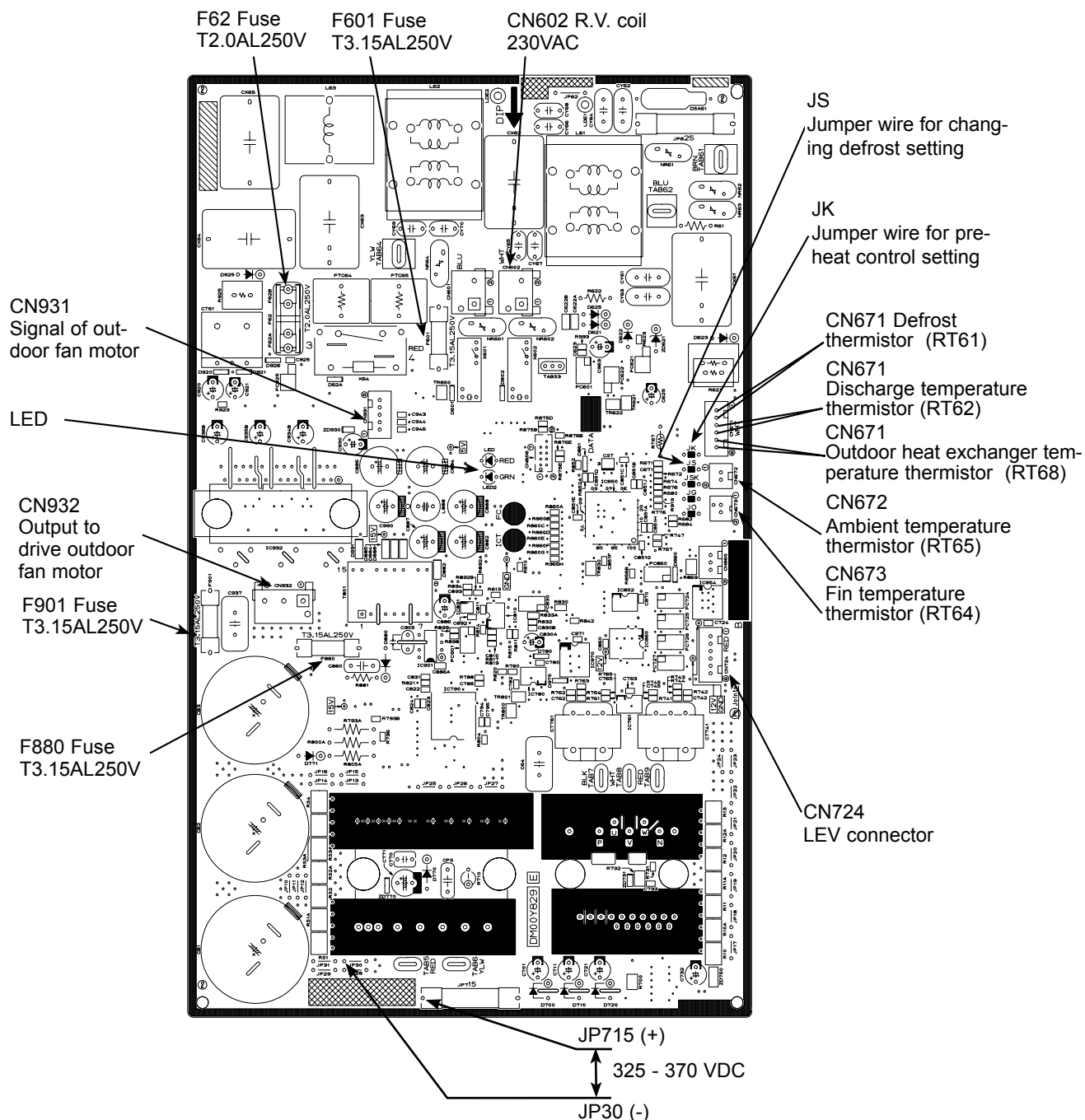
MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD



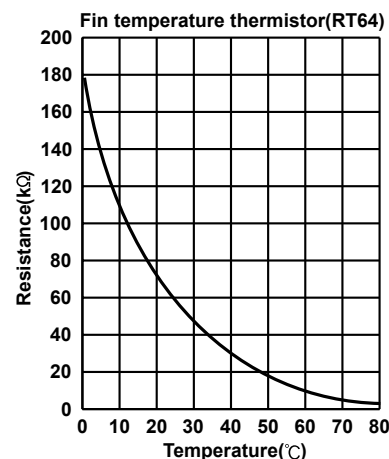
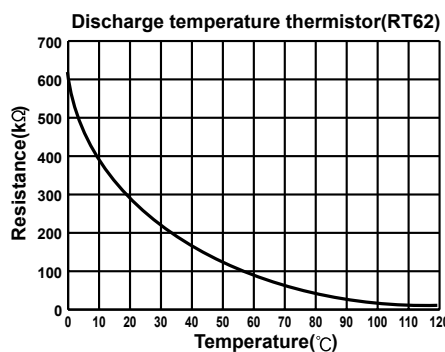
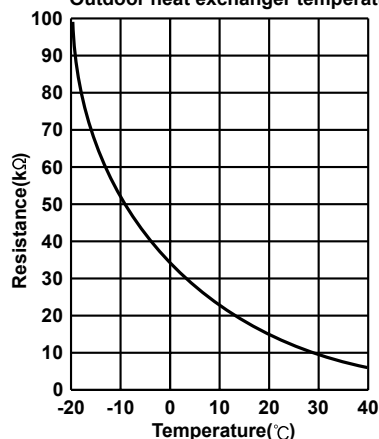
Defrost thermistor(RT61)
Ambient temperature thermistor(RT65)
Outdoor heat exchanger temperature thermistor(RT68)



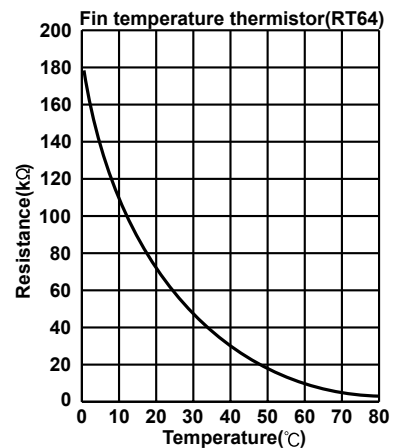
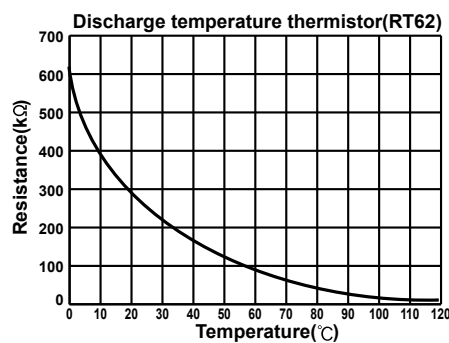
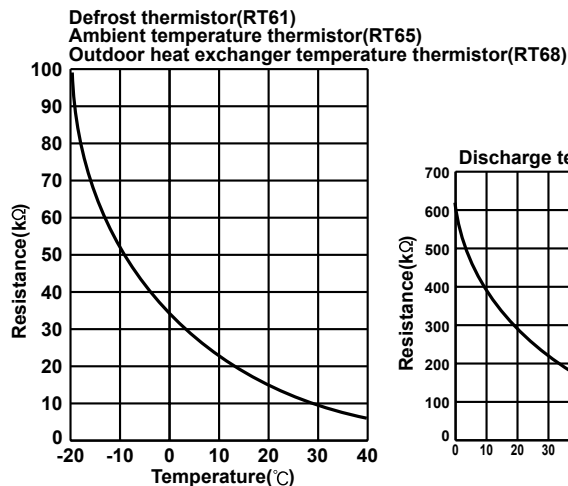
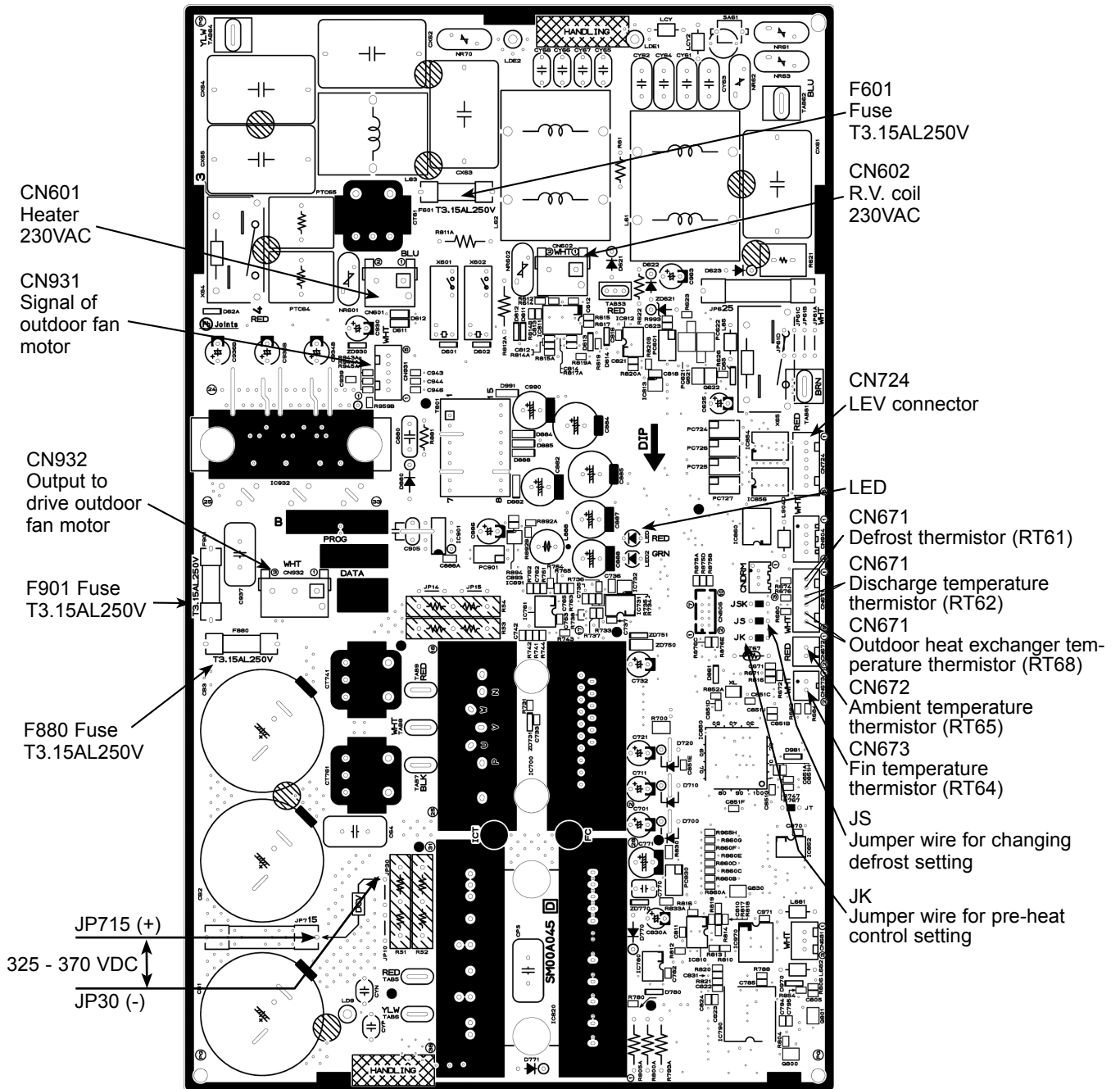
MUZ-GE60VA MUZ-GE71VA MUZ-GE80VA MUZ-GE80VA2



Defrost thermistor(RT61)
Ambient temperature thermistor(RT65)
Outdoor heat exchanger temperature thermistor(RT68)



MUZ-GE60VAD MUZ-GE71VAD MUZ-GE80VAD



<"Terminal with locking mechanism" Detaching points>

The terminal which has the locking mechanism can be detached as shown below.

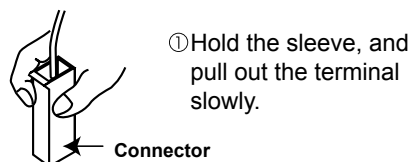
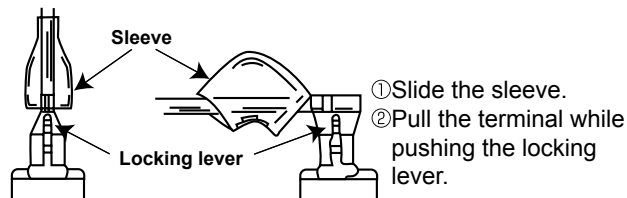
There are two types (refer to (1) and (2)) of the terminal with locking mechanism.

The terminal without locking mechanism can be detached by pulling it out.

Check the shape of the terminal before detaching.

(1) Slide the sleeve and check if there is a locking lever or not.

(2) The terminal with this connector has the locking mechanism.

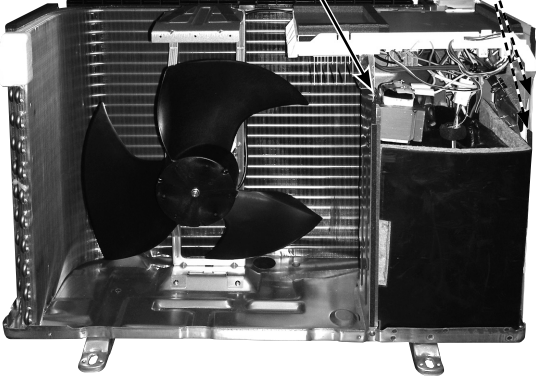
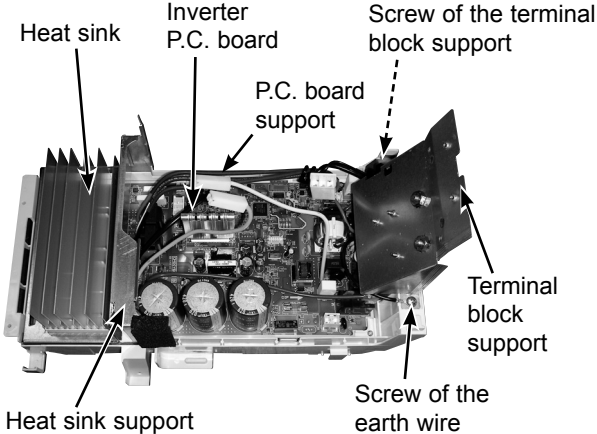



12-1. MUZ-GE25VA MUZ-GE25VAD MUZ-GE33VA MUZ-GE35VA MUZ-GE35VA2 MUZ-GE35VAD MUZ-GE42VA MUZ-GE42VAD

NOTE: Turn OFF power supply before disassembly.

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the cabinet</p> <ol style="list-style-type: none"> (1) Remove the screw fixing the service panel. (2) Pull down the service panel and remove it. (3) Disconnect the power supply and indoor/outdoor connecting wire. (4) Remove the screws fixing the top panel. (5) Remove the top panel. (6) Remove the screws fixing the cabinet. (7) Remove the cabinet. (8) Remove the screws fixing the back panel. (9) Remove the back panel. 	<p>Photo 1</p> <p>Photo 2</p>



OPERATING PROCEDURE	PHOTOS
<p>2. Removing the inverter assembly, inverter P.C. board</p> <p>(1) Remove the cabinet and panels. (Refer to 1.)</p> <p>(2) Disconnect the lead wire to the reactor and the following connectors:</p> <p><Inverter P.C. board></p> <p>CN721 (R.V. coil)</p> <p>CN932 (Fan motor)</p> <p>CN641 (Defrost thermistor and discharge temperature thermistor)</p> <p>CN643 (Ambient temperature thermistor)</p> <p>CN644 (Outdoor heat exchanger temperature thermistor)</p> <p>CN724 (LEV)</p> <p>(3) Remove the compressor connector (CN61).</p> <p>(4) Remove the screws fixing the heat sink support and the separator.</p> <p>(5) Remove the fixing screws of the terminal block support and the back panel.</p> <p>(6) Remove the inverter assembly.</p> <p>(7) Remove the screw of the earth wire and screw of the terminal block support.</p> <p>(8) Remove the heat sink support from the P.C. board support.</p> <p>(9) Remove the screw of the inverter P.C. board and remove the inverter P.C. board from the P.C. board support.</p>	<p>Photo 3</p> <p>Screws of the terminal block support and the back panel</p> <p>Screws of the heat sink support and the separator</p>  <p>Photo 4 (Inverter assembly)</p> <p>Heat sink</p> <p>Inverter P.C. board</p> <p>Screw of the terminal block support</p> <p>P.C. board support</p> <p>Terminal block support</p> <p>Screw of the earth wire</p> <p>Heat sink support</p> 
<p>3. Removing R.V. coil</p> <p>(1) Remove the cabinet and panels. (Refer to 1.)</p> <p>(2) Disconnect the following connectors:</p> <p><Inverter P.C. board></p> <p>CN721 (R.V. coil)</p> <p>(3) Remove the R.V. coil.</p>	
<p>4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor</p> <p>(1) Remove the cabinet and panels. (Refer to 1.)</p> <p>(2) Disconnect the lead wire to the reactor and the following connectors:</p> <p><Inverter P.C. board></p> <p>CN641 (Defrost thermistor and discharge temperature thermistor)</p> <p>CN643 (Ambient temperature thermistor)</p> <p>CN644 (Outdoor heat exchanger temperature thermistor)</p> <p>(3) Pull out the discharge temperature thermistor from its holder.</p> <p>(4) Pull out the defrost thermistor from its holder. (Photo 6)</p> <p>(5) Pull out the outdoor heat exchanger temperature thermistor from its holder. (Photo 6)</p> <p>(6) Pull out the ambient temperature thermistor from its holder.</p>	<p>Photo 5</p> <p>Screw of the R.V. coil</p>  <p>Discharge temperature thermistor</p>

OPERATING PROCEDURE

5. Removing outdoor fan motor

- (1) Remove the cabinet and panels. (Refer to 1.)
- (2) Disconnect the following connectors:
<Inverter P.C. board>
CN932 (Fan motor)
- (3) Remove the propeller nut.
- (4) Remove the propeller.
- (5) Remove the screws fixing the fan motor.
- (6) Remove the fan motor.

6. Removing the compressor and 4-way valve

- (1) Remove the cabinet and panels. (Refer to 1.)
- (2) Remove the inverter assembly. (Refer to 2.)
- (3) Recover gas from the refrigerant circuit.
NOTE: Recover gas from the pipes until the pressure gauge shows 0 MPa.
- (4) Detach the brazed part of the suction and the discharge pipe connected with compressor.
- (5) Remove the nuts of compressor legs.
- (6) Remove the compressor.
- (7) Detach the brazed part of pipes connected with 4-way valve.

PHOTOS

Photo 6

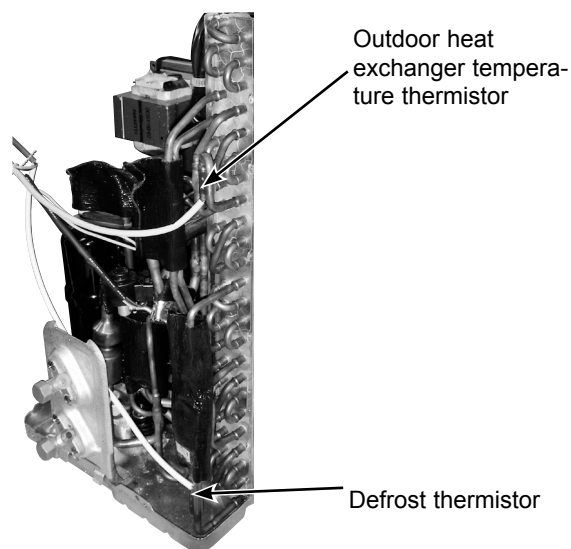


Photo 7

Screws of the outdoor fan motor

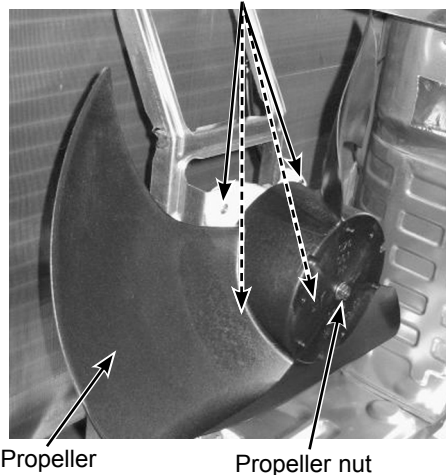
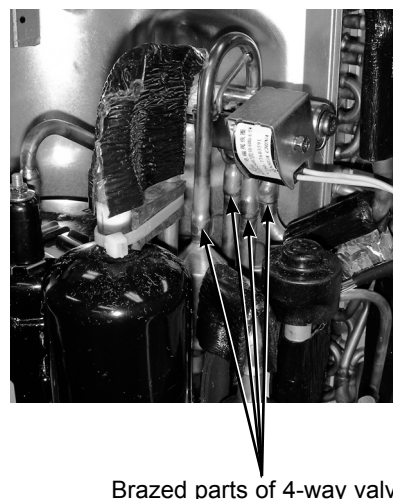


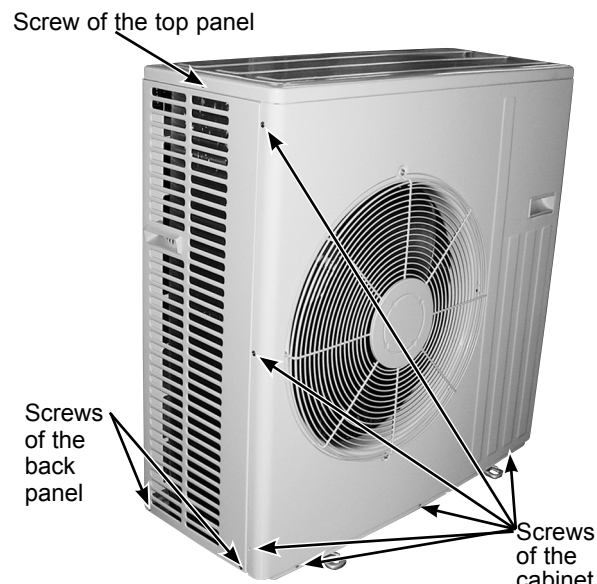
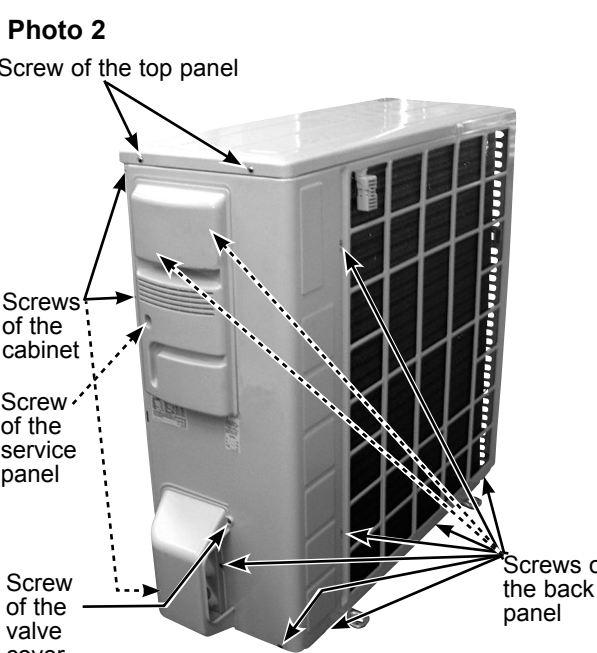
Photo 8



Brazed parts of 4-way valve

12-2. MUZ-GE50VA MUZ-GE50VA2 MUZ-GE50VAD

NOTE: Turn OFF power supply before disassembly.

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the cabinet</p> <ol style="list-style-type: none"> (1) Remove the screws of the service panel. (2) Remove the screws of the top panel. (3) Remove the screw of the valve cover. (4) Remove the service panel. (5) Remove the top panel. (6) Remove the valve cover. (7) Disconnect the power supply and indoor/outdoor connecting wire. (8) Remove the screws of the cabinet. (9) Remove the cabinet. (10) Remove the screws of the back panel. (11) Remove the back panel. 	<p>Photo 1</p>  <p>Screw of the top panel</p> <p>Screws of the back panel</p> <p>Screws of the cabinet</p> <p>Photo 2</p>  <p>Screw of the top panel</p> <p>Screws of the cabinet</p> <p>Screw of the service panel</p> <p>Screw of the valve cover</p> <p>Screws of the back panel</p>

OPERATING PROCEDURE

2. Removing the inverter assembly, inverter P.C. board

- (1) Remove the cabinet and panels. (Refer to 1.)
- (2) Disconnect the lead wire to the reactor and the following connectors:
 <Inverter P.C. board>
 CN721 (R.V.coil)
 CN931, CN932 (Fan motor)
 CN641 (Defrost thermistor and discharge temperature thermistor)
 CN643 (Ambient temperature thermistor)
 CN644 (Outdoor heat exchanger temperature thermistor)
 CN724 (LEV)
- (3) Remove the compressor connector (CN61).
- (4) Remove the screws fixing the relay panel.
- (5) Remove the inverter assembly.
- (6) Remove the screw of the earth wire and screw of the T.B.support.
- (7) Remove the screw of the PB fixture.
- (8) Remove the relay panel from the PB support.
- (9) Remove the inverter P.C. board from the inverter assembly.

3. Removing R.V. coil

- (1) Remove the cabinet and panels. (Refer to 1.)
- (2) Disconnect the following connectors:
 <Inverter P.C. board>
 CN721 (R.V. coil)
- (3) Remove the R.V. coil.

PHOTOS

Photo 3

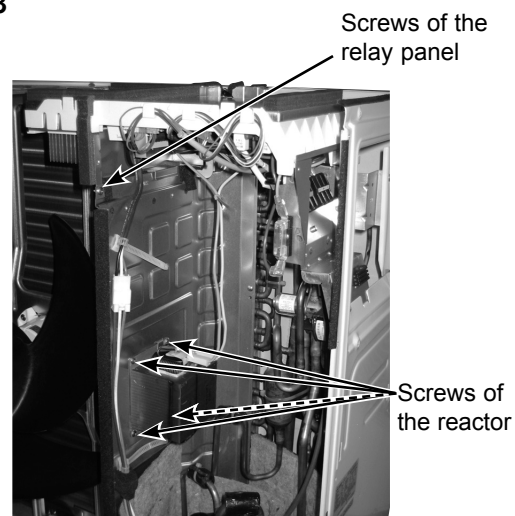


Photo 4 (Inverter assembly)

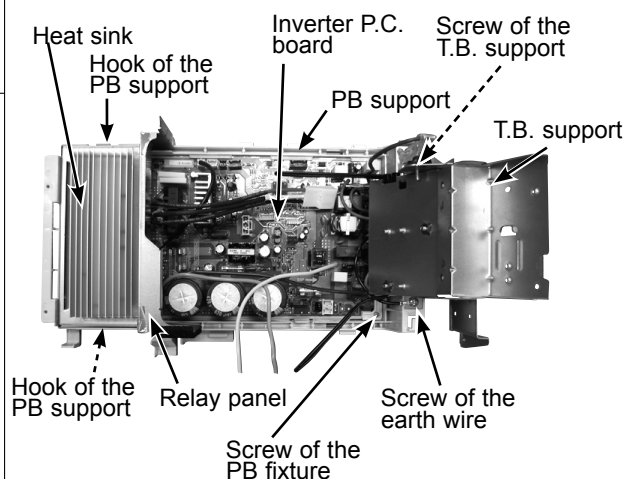
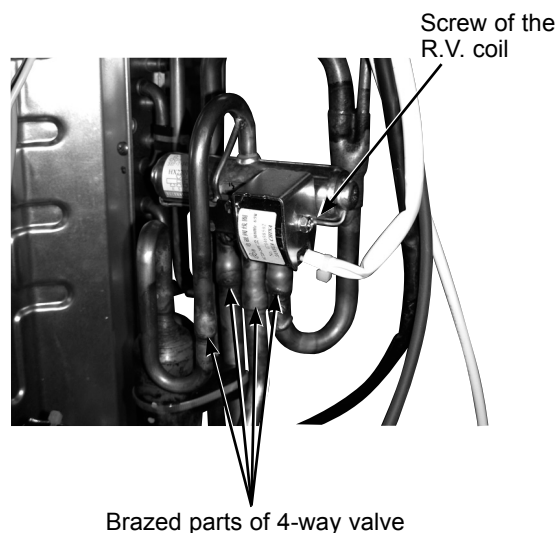


Photo5



OPERATING PROCEDURE

4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor

- (1) Remove the cabinet and panels. (Refer to 1.)
- (2) Disconnect the lead wire to the reactor and the following connectors:
 <Inverter P.C. board>
 CN641 (Defrost thermistor and discharge temperature thermistor)
 CN643 (Ambient temperature thermistor)
 CN644 (Outdoor heat exchanger temperature thermistor)
- (3) Pull out the discharge temperature thermistor from its holder.
- (4) Pull out the defrost thermistor from its holder.
- (5) Pull out the outdoor heat exchanger temperature thermistor from its holder.
- (6) Pull out the ambient temperature thermistor from its holder.

5. Removing outdoor fan motor

- (1) Remove the top panel, cabinet and service panel. (Refer to 1.)
- (2) Disconnect the following connectors:
 <Inverter P.C. board>
 CN931 and CN932 (Fan motor)
- (3) Remove the propeller.
- (4) Remove the screws fixing the fan motor.
- (5) Remove the fan motor.

6. Removing the compressor and 4-way valve

- (1) Remove the top panel, cabinet and service panel. (Refer to 1.)
- (2) Remove the back panel. (Refer to 1.)
- (3) Remove the inverter assembly. (Refer to 2.)
- (4) Recover gas from the refrigerant circuit.
NOTE: Recover gas from the pipes until the pressure gauge shows 0 MPa.
- (5) Detach the brazed part of the suction and the discharge pipe connected with compressor.
- (6) Remove the compressor nuts.
- (7) Remove the compressor.
- (8) Detach the brazed parts of 4-way valve and pipe. (Photo 5)

PHOTOS

Photo 6

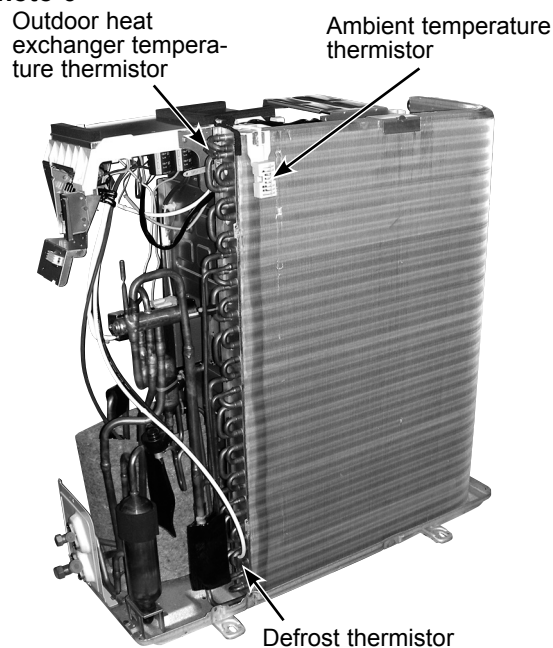


Photo 7

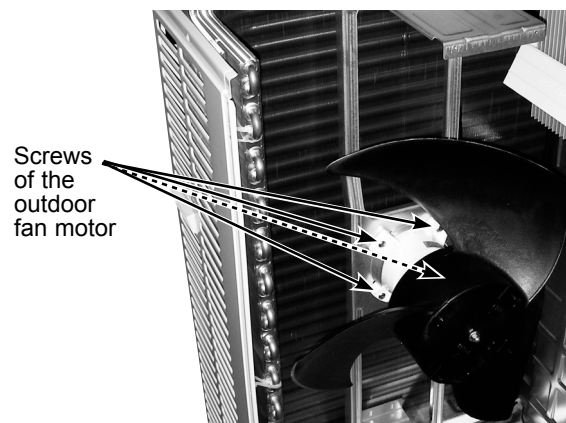
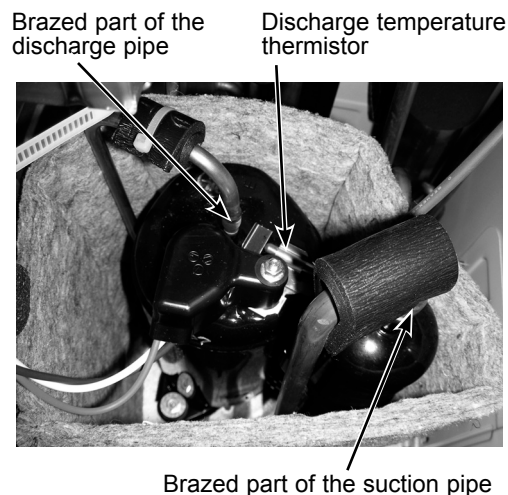
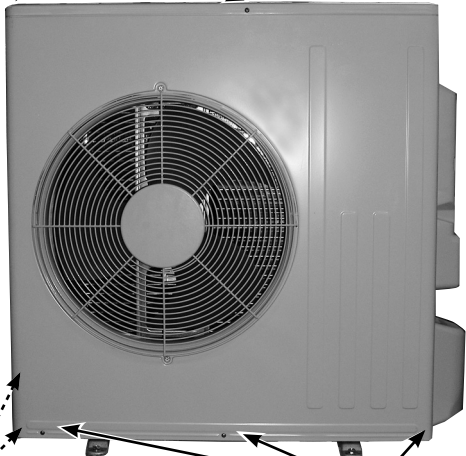
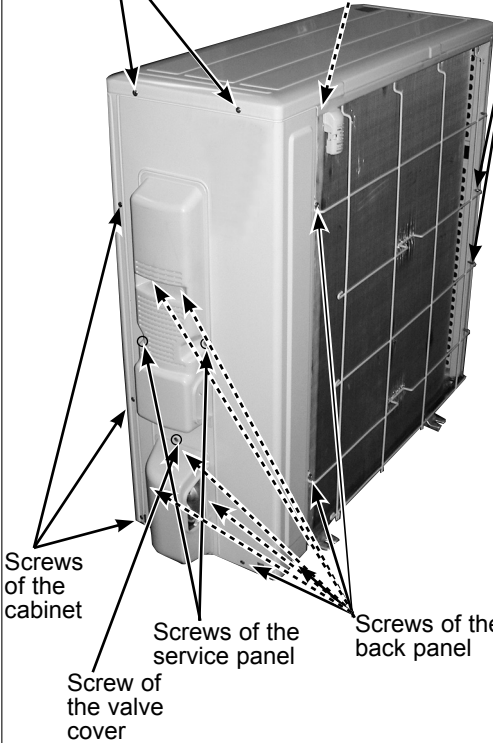


Photo 8

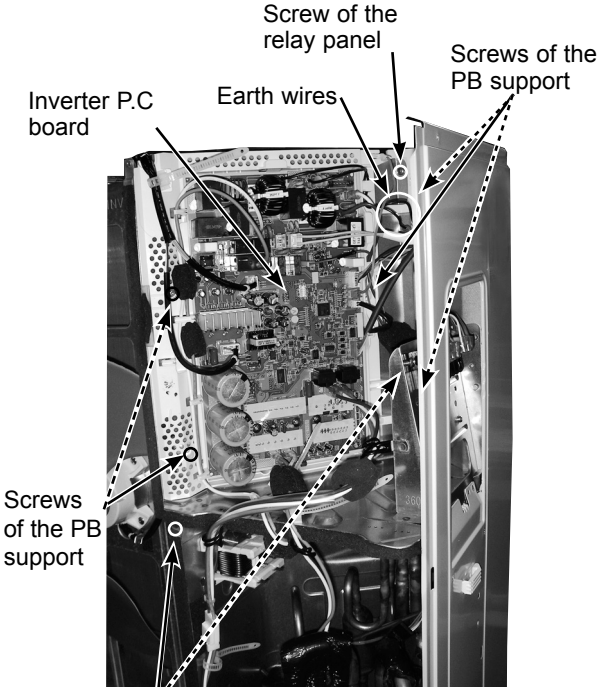
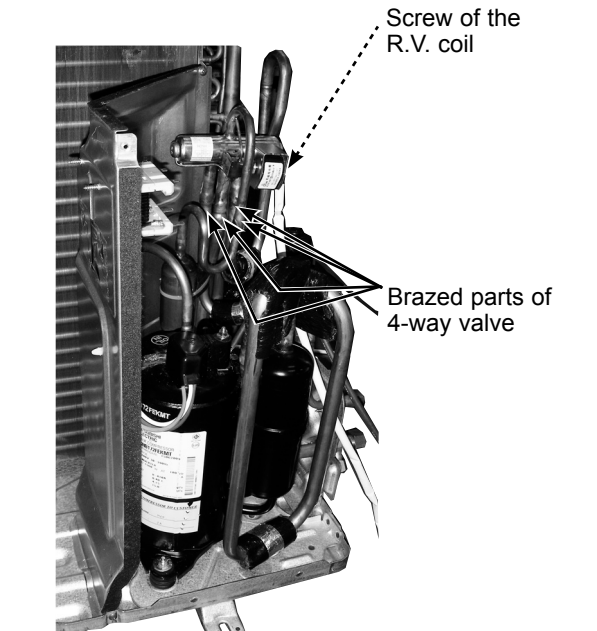


12-3. MUZ-GE60VA MUZ-GE60VAD MUZ-GE71VA MUZ-GE71VAD
MUZ-GE80VA MUZ-GE80VA2 MUZ-GE80VAD

NOTE: Turn OFF power supply before disassembly.

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the cabinet</p> <ol style="list-style-type: none"> (1) Remove the screws of the service panel. (2) Remove the screws of the top panel. (3) Remove the screw of the valve cover. (4) Remove the service panel. (5) Remove the top panel. (6) Remove the valve cover. (7) Disconnect the power supply and indoor/outdoor connecting wire. (8) Remove the screws of the cabinet. (9) Remove the cabinet. (10) Remove the screws of the back panel. (11) Remove the back panel. 	<p>Photo 1</p>  <p>Screws of the top panel</p> <p>Screws of the cabinet</p> <p>Screws of the cabinet</p> <p>Photo 2</p>  <p>Screw of the back panel</p> <p>Screws of the top panel</p> <p>Screws of the cabinet</p> <p>Screws of the cabinet</p> <p>Screws of the service panel</p> <p>Screw of the valve cover</p> <p>Screws of the back panel</p>



OPERATING PROCEDURE	PHOTOS
<p>2. Removing the inverter assembly, inverter P.C. board</p> <p>(1) Remove the cabinet and panels. (Refer to 1.)</p> <p>(2) Disconnect the lead wire to the reactor and the following connectors:</p> <p><Inverter P.C. board></p> <p>CN602 (R.V. coil)</p> <p>CN931, CN932 (Fan motor)</p> <p>CN671 (Defrost thermistor, discharge temperature thermistor and outdoor heat exchanger temperature thermistor)</p> <p>CN672 (Ambient temperature thermistor)</p> <p>CN724 (LEV)</p> <p>(3) Remove the compressor connector.</p> <p>(4) Remove the screws fixing the relay panel.</p> <p>(5) Remove the relay panel.</p> <p>(6) Remove the earth wires and the lead wires of the inverter P.C. board.</p> <p>(7) Remove the screw of the PB support.</p> <p>(8) Remove the inverter P.C. board from the relay panel.</p>	<p>Photo 3</p>  <p>Labels in Photo 3:</p> <ul style="list-style-type: none">Inverter P.C boardEarth wiresScrew of the relay panelScrews of the PB supportScrews of the relay panel
<p>3. Removing R.V. coil</p> <p>(1) Remove the cabinet and panels. (Refer to 1.)</p> <p>(2) Disconnect the following connector:</p> <p><Inverter P.C. board></p> <p>CN602 (R.V. coil)</p> <p>(3) Remove the R.V. coil.</p>	<p>Photo 4</p>  <p>Labels in Photo 4:</p> <ul style="list-style-type: none">Screw of the R.V. coilBrazed parts of 4-way valve

OPERATING PROCEDURE

4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor

- (1) Remove the cabinet and panels. (Refer to 1.)
- (2) Disconnect the lead wire to the reactor and the following connectors:
<Inverter P.C. board>
CN671 (Defrost thermistor, discharge temperature thermistor and outdoor heat exchanger temperature thermistor)
CN672 (Ambient temperature thermistor)
- (3) Pull out the discharge temperature thermistor from its holder.
- (4) Pull out the defrost thermistor from its holder.
- (5) Pull out the outdoor heat exchanger temperature thermistor from its holder.
- (6) Pull out the ambient temperature thermistor from its holder.

5. Removing outdoor fan motor

- (1) Remove the top panel, cabinet and service panel. (Refer to 1.)
- (2) Disconnect the following connectors:
<Inverter P.C. board>
CN931 and CN932 (Fan motor)
- (3) Remove the propeller.
- (4) Remove the screws fixing the fan motor.
- (5) Remove the fan motor.

6. Removing the compressor and 4-way valve

- (1) Remove the top panel, cabinet and service panel. (Refer to 1.)
- (2) Remove the back panel. (Refer to 1.)
- (3) Remove the inverter assembly. (Refer to 2.)
- (4) Recover gas from the refrigerant circuit.
NOTE: Recover gas from the pipes until the pressure gauge shows 0 MPa.
- (5) Detach the brazed part of the suction and the discharge pipe connected with compressor.
- (6) Remove the compressor nuts.
- (7) Remove the compressor.
- (8) Detach the brazed parts of 4-way valve and pipe. (Photo 4)

PHOTOS

Photo 5

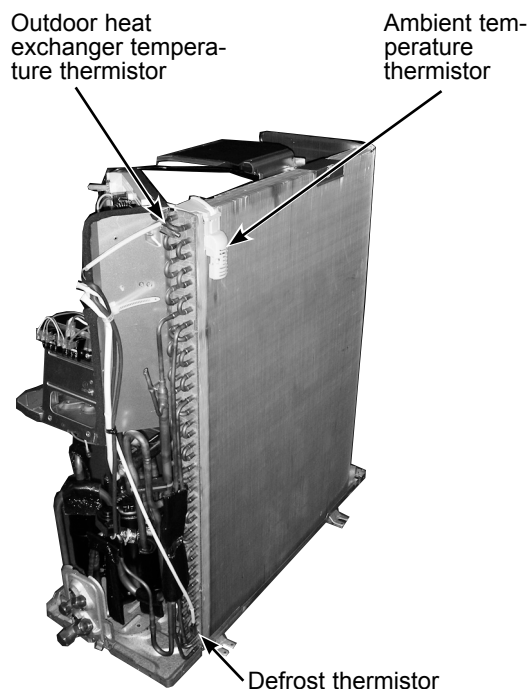


Photo 6

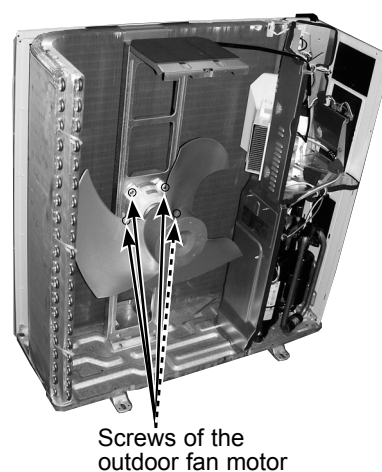
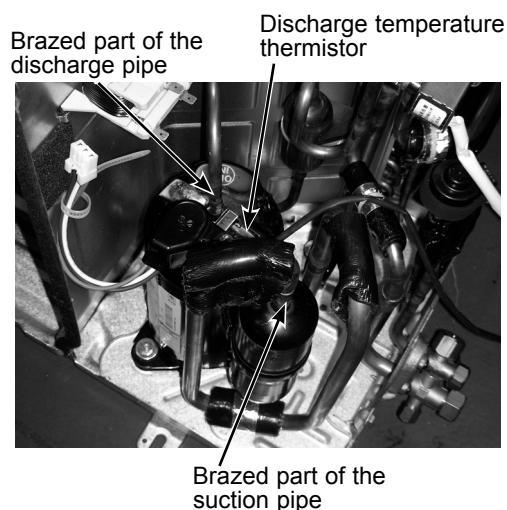


Photo 7



MITSUBISHI ELECTRIC CORPORATION

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Distributed in Sep. 2013. No. OBH532 REVISED EDITION-E
Distributed in Apr. 2012. No. OBH532 REVISED EDITION-D
Distributed in Jul. 2011. No. OBH532 REVISED EDITION-C
Distributed in Jul. 2010. No. OBH532 REVISED EDITION-B 5
Distributed in Oct. 2009. No. OBH532 REVISED EDITION-A 5
Distributed in Feb. 2009. No. OBH532 5
Made in Japan

New publication, effective Sep. 2013
Specifications are subject to change without notice.